NOW A TOTAL MOUSE/
GRAPHICS PACKAGE
FOR YOUR
AMSTRAD
AT A TRULY
UNBEATABLE
PRICE!!



Genius Mouse

COMPLETE



>>>>> SPECIAL OFFER PACK!!

- Genius Mouse is a high resolution two button mouse featuring optical counting, teflon guides, microswitches, rubber coated ball and high quality interface.
- When combined with OCP Advanced Art Studio this graphics package is quite simply the best system available. The features are unmatched...
- Create an image shrink it, expand it, move it, rotate it, copy it, colour it, etc., etc.
- Spray patterns or shades, make elastic lines stretch and manipulate shapes.
- Zoom in to add detail in fine mode.
 Full cut and paste facilities plus excellent printer support.
- Pulldown/Icon driven menus for ease of use. Mouse operation, plus joystick and keyboard control.

16 pens, 8 sprays, 16 brushes - so flexible anyone can create superb graphics easily COMPLETE WITH MOUSE INTERFACE



The Genius Mouse Graphics
System comes complete with the special Mouse Interface to allow

super smooth control.

Attractively styled to match your 464 or 6128 design and colour, Simply plugs into Expansion/Joystick port.

ntrol.

tenius

TOTAL PACKAGE
INCLUDES GENIUS MOUSE,
INTERFACE, OCP ADVANCED ART
STUDIO PLUS FREE MOUSE MAT
AND HOLDER

TAPE OR DISK FOR 464 OR 6128 (PLEASE STATE WHICH REQUIRED) N.B. 464 NEEDS DK'TRONICS 64K RAM PACK

FREE!

MOUSE MAT AND MOUSE HOLDER (WORTH £12.99) WITH EACH PACKAGE



LC 200 COLOUR PRINTER PACKAGE

NOW YOU CAN PRINT OUT YOUR PICTURES IN FULL COLOUR!

- The Star LC200 Colour Printer not only prints in Near Letter Quality for your regular jobs but also prints out your pictures from Art Studio, etc., in genuine colour!
- LC200 is a full Centronics printer so it works with other computers (Amiga, ST, etc.).
- Made possible by Datel's unique colour printer driver now you can have a hardcopy in up to 16 colours!
 No more to buy just plug in and print!!

PACKAGE INCLUDES... STAR LC200 COLOUR PRINTER RRP £299.00
CENTRONICS PRINTER LEAD RRP £9.99
DATEL COLOUR PRINTER DRIVER SOFTWARE RRP £19.99

COMPLETE PACKAGE NOW ONLY 22

COLOUR PRINTER DRIVER AVAILABLE SEPARATELY ONLY £19.99

• If you already have an LC10 or LC 200 Colour Printer we can supply the Driver separately.

dironics



- Simple plug in memory expansion gives instant extra memory.
- Features bank switching software for easy use by the programme or for use as a data storage area.
- Ideal for use with the CPM 2.2 etc.
- The software also features some extra BASIC commands.
- 64K unit expands 464 to 128K.
- 64K unit brings 464 up to CPC 6128 memory configuration making a much larger software base available. Will work straight off with many programs designed for this unit (including OCP Art Studiosee Ad.).
- Bank switching done automatically by software (cassette 464).

ONLY £49.99 64K FOR 464

SATE !! Electronics

HOW TO GET YOUR ORDER FAST!

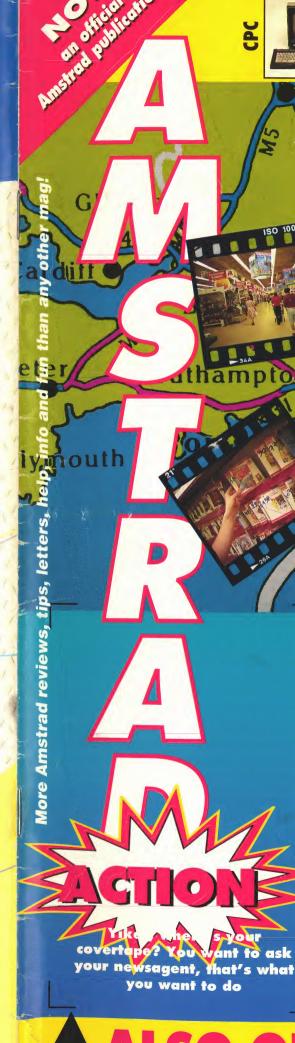
TELEPHONE [24Hrs] 0782 744707 CREDIT CARD ORDERS ORDERS NORMALLY DISPATCHED WITHIN 48 Hrs. ALL CHEQUES/POSTAL ORDERS MADE PAYABLE TO...



GOVAN ROAD, FENTON INDUSTRIAL ESTATE, FENTON, STOKE-ON-TRENT,
ST4 2RS, ENGLAND, FAX 0782 744292 TECHNICAL/CUSTOMER SERVICE 0782 744324



222, TOTTENHAM COURT RD, LONDON, W1. TEL:071 5806460



education special

ISSUE No. 83

AUGUST 1992

£2.50

Study this month's Buyers' Guide to find the best learning software for the CPC

Shelves packed with CPC games, and just a two-hour trip away...

...YOU THOUGHT THEY'D GONE FOREVER?

they're back

NEW! CPC Firmware Guide – reviewed
NEW! RS232 Interface – sneak preview

plus: TURBO THE TORTOISE

BRITAIN'S BEST-SELLING MAGAZINE FOR THE AMSTRAD



ALSO ON DISK!

Want a disk version of the covertape?
(6128 Plus owners take note) Check out the tape pages for details on how to order your copy.

AMS 7

Future Publishing Limited ford Court, 30 Monmouth Bath. Avon BA1 2BW Tel: 0225 442244 Fax: 0225 446019

Editor Rod Lawton Staff Writer Adam Peters **Consultant Technical Editor Adam Waring** Contributors Stuart Whyte, Phil Howard, Jerry Glenwright, Bertram Fegg, Tim Blackbond Art Editor Angela Neal Advertisement Manager Alison Morton Senior Sales Executive Jackie Garford Publisher Jane Richardson Promotions Manager Michele Harris **Publishing Assistant Tamara Ward Group Publishing Director Greg Ingham Production** Tracy O'Donnell Subscriptions Christine Stacey, tel: 0458 74011 Mail Order Claire Bates, tel: 0458 74011 Circulation Director Sue Hartley, tel: 0225 442244

• Reader calls: Due to pressure of work, we can only accept 'phone calls from readers on Tuesday afternoons.

ate, but cannot be liable for any mistakes or misprints. No part of may be reproduced in any form without our explicit written per-

PRINTED IN THE UK



'YOUR GUARANTEE OF VALUE'

This magazine comes from Future Publishing, a company founded just six years ago, but which now sells more computer magazines than any other publisher in Britain. We offer:

- Better advice. Our titles are packed with tips, suggestions and explanatory features, written by the best in the business. • Stronger reviews. We have a cast-iron policy of editorial independence, and our reviews give clear buying recommendations.
- Clearer design. You need solid information fast. So our designers highlight key elements by using charts, diagrams, summary boxes, anno-
- Greater relevance. At Future, editors operate under two golden rules: Understand your readers' needs.
- More reader interaction. We draw strongly on readers' contributions, resulting in the liveliest letters pages and the best reader tips. Buying one of our magazines is like joining a nationwide user group.
- Better value for money. More pages, better quality: magazines you

Home of Britain's finest computer magazines.

Amstrad Action • Your Sinclair • Commodore Format • PCW Plus • PC Plus • PC Answers • PC Format • Amiga Format • ST Format • Sega Power • Total! • Amiga Power • Amiga Shopper and also Classic CD • Mountain Biking UK • Cycling Plus • Photo Plus • Needlecraft • Cross-Stitch Collection • Today's Vegetarian

Member of the Audit Bureau of Circulations

Software heaven!



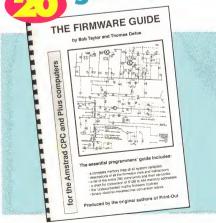
It's four hours from London, it costs the price of a train fare to get there and on sale there are more CPC games than you could carry...!

Turbo the **Tortoise**

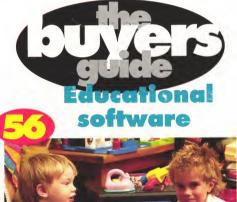


Who needs Sonic the Hedgehog when you've got Turbo the Tortoise? Platform romps a-plenty in this sixlevel arcade adventure

New firmware avide!



The long-lamented (long-discontinued) Amstrad Firmware Manual now has a replacement! Read the full review and find out where to get one in Technical Forum this issue...





You know what they say about 'all work and no play'... well, with the best educational software your child can work and play at the same time!

The solution to everything...



...well, five different games, anyway! PLUS a map of that Codies toughie Spellbound Dizzy. And it's all in Cheat Mode, this month!

serious

- 12 HOLD THE FRONT PAGE Adam Peters continues his guide to producing the perfect fanzine
- 20 TECHNICAL FORUM Techie queries answered PLUS reviews on an 'alternative' firmware manual AND Siron Software's DS222 interface
- 42 THE WACCI PAGE Clive Bellaby's regular helping of SERIOUS CPC talk
- 51 TYPE-INS Two excellent games and a demo... plus Jerry Glenwright's BASIC tutorial
- 56 BUYERS' GUIDE The last in the series (sob!)... covering the best in educational software

games

- 14 SOFTWARE HEAVEN We've never seen so much software in one place before – and on disk!
- 27 GRELL & FALLA A goblin and a fairy who are also landscape gardeners... good grief
- 28 HIT FOR SIX: FOOTBALL MANAGEMENT The start of a new series looking at a particular type of game. This month: Soccer strategy.
- 30 TURBO THE TORTOISE A mutated tortoise who's got to collect the parts for a cybernetic prototype... look, who writes these things?
- 32 ACTION REPLAY Just look at all these ex-full-pricers, now available on budget!
- 34 CAPTAIN DYNAMO The world's oldest superhero shuffles into action in a lunar (or do we mean loonie?) adventure
- 35 CHEAT MODE Map of Spellbound Dizzy plus more tips than you could shake a wand at. Plus part 2 of the Sphinx Jinx solution...
- 40 BALROG GAC questions and answers, readers' mail and the latest adventuring news
- 44 ON THE GRAPEVINE A giant compo, cartridge news, the Amstrad Action re-shuffle, some spanky show news... and we bet you didn't know that Alternative Software produces a magazine...
- 46 HOW A GAME IS MADE The latest developments in the Seymour saga
- 55 BUYERS GUIDE GAMES The very best adventure/role-playing games of all time

regulars

- 4 COVERTAPE So how do you use those fabby progs on the covertape? Find out here
- REACTION Cor, you're a funny lot out there, aren't you? You want proof? Read on...
- 19 AMSCENE All the latest goings-on in CPC land products, people and (quick, someone, something beginning with 'p'...)
- 25 SMALL ADS Sell your unwanted kit for just a fiver an ad. No, you can't sell members of your family Mr. Halibut of Orkney
- 48 SUBSCRIPTIONS/ BACK ISSUES Come on, you know it makes sense
- 50 SPECIAL OFFERS Go on, take a look! We think you might be tempted...
- 58 AAFTERTHOUGHT What's going in the next ish

ACTION

Amstrad CPC 464, CPC 6128, CPC 464 Plus

■ Defenders of the Earth - this one's so tough it drove us potty. Can you do better?

■ Drehdriss - a Tetris clone from Poland (or somewhere) and it's got a two-player mode

■ Croco Magneto screen designer the original *Croco* not tough enough for you? Then beef it up with this utility!

■ Supersonic - no, not the highspeed hedgehog of Sega (ugh! spit) fame, but a music utility that lets you make tunes for your progs

■ Type-ins AA81 - We print codes in the mag to help you get them right, but if those 'Syntax error's are still bugging (ha!) you, you can now run June's progs the easy way

■ Pokes galore - tons of dirty, lowdown cheats for tons of games

Loading the programs couldn't be easier! Type machine you'll first have to type ITAPE RUN" (followed by RETURN) and press a key to start the tape. (A shortcut way to get RUN" is to hold down CONTROL and tap the small ENTER key.)

All programs transfer to disk - full instructions on the trans

A menu screen will appear in a short time. Select the program you wish to load. Press SPACE to highlight the program you want followed by RETURN to load the program.

Note that BASIC progams (e.g. the pokes) must be loaded directy from BASIC with the RUN" com-

* If you have a disk drive connected to your

to switch the machine to tape loading rather than disk loading. (The I is obtained by pressing SHIFT and @) The computer will load the next program,

program details over the page

Disk owners read this!

If you have a disk drive, you'll only ever have to load from the tape once - all programs are transferred easily to disk.

Insert a blank formatted disk into the drive and the covertape at the start of side one into your cassette player. Connect the REM socket if you have one (6128 owners) - it'll automatically stop the tape in the right places when accessing the disk drive.

Load the menu program in the normal way and select the TRANSFER TO DISK option. Follow the onscreen instructions and press a key when the computer asks you to. It's as simple as that!

If you have problems you'll be asked to rewind the tape and try again. If so, don't panic - follow the advice for tape loading troubles. Still no luck? Then Ablex will replace your tape. See overleaf.

Owners of the 6128 Plus are unable to connect a cassette recorder to their machines. If these or any other users would like a copy on disk, simply snip off the coupon on the corner of this page and send it with a cheque/PO for £2.00 made payable to Ablex Audio Video Ltd to:

AA83 disk offer, Ablex Audio Video Ltd., Harcourt, Halesford 14, Telford, Shropshire TF7 4QD.

Loading: Defenders of the Earth must be about. There are a few hazards (some locked doors run from the main menu. Get ready to turn over and rewind the tape when prompted (the level data is on side 2)

Let's journey back to a time when defending the earth meant fighting aliens rather than planting trees. Yep, this is a game based on the cartoon series starring Flash Gordon and Emperor Ming and their respective pals. Featuring some of the best graphics of any AA covertape game, Defenders is difficult with a capital 'difficult'

It's a simple enough shoot-em-up in terms of design, the only trickiness comes in the sheer weight of enemies. It's actually not as hard as Trenton Webb and Adam W made out when they reviewed it a couple of years ago. You can avoid most of the enemies by keeping your wits to the fore and timing all your jumps really well.

The end-of-level guardians are as hard as lead tubing, mind, and they're not all you have to worry and the odd river) that you can't get past on your own. Pressing '1' will call up a friend with a hairpin or MFI footbridge (as appropriate), but it means hanging around on that screen for a lot longer than it's sensible to do so.

Oh, and you can't really hang around anywhere for too long. Loiter on the same screen for more than a few seconds and an auto-defence system will turn you into person dust. Yikes!

> • Defenders of the Earth controls Use either keyboard or joystick

QUp
ADown
0Left
PRight
SPACEFire
1Call for help
HPause

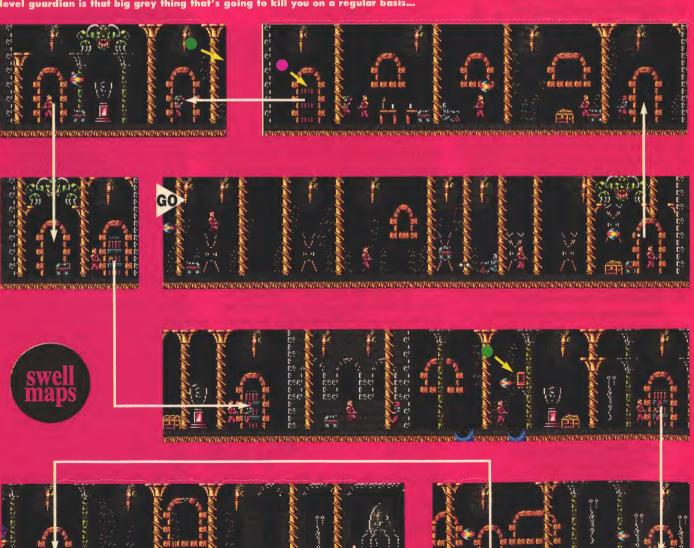
STUDIED DEFENCE

You're the bloke in red (1), the enemies are enemies (2), your energy is flagging (3), you're running out of lives reeze (4) and your friends are doing nothing (5). Nice jump though.



THE FIRST OF TOO MANY...

Here's level one in all its glory. What can we say, other than that 'GO' indicates your start point, arrows show you where doors take you, purple blobs indicate hazards you'll need to call for help at, green blobs indicate power-ups and collectables, and the end-oflevel guardian is that big grey thing that's going to kill you on a regular basis...



mances to be honest. We're messing up...



tainly, but none too hot score-wise.

■ Er, this is not one of our best perfor. ■ See what we mean? A nice pattern, cer-

Loading: Drehdriss must be run from BASIC. Type RUN"DD

Good old Tetris, eh, it's everyone's favourite blockbased moving puzzle that isn't Klax. And lo-and-behold but here comes your caring, sharing AA, in association with our chums at Robot PD (2) Trent Road, Oakham, Rutland LE15 6HF), to offer you a PD Tetris that is actually better than the com-

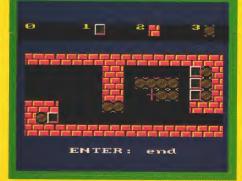
It's also worthy of mention for a couple of other reasons. Firstly, it comes from Poland and is therefore the first piece of software from Eastern Europe to feature on an AA covertape. Secondly, it's got a two-player mode. While this slows things down a lot - and there can be a few strange side effects - it certainly helps pile on the fun.



■ A little better here, if we can just slot blocks into those gaps at the bottom...

CROCO (NOT-O)

So where's the Croco Magneto Screen Designer then, you bunch of West Country crooks? Ah... well actually we encountered a last minute problem getting the program to work from tape. Sorry. We've currently got our technical experts working night and day to find a solution, and the program will appear on a covertage very, very soon. We

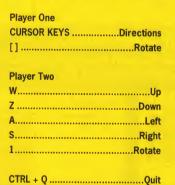


The game itself is so famous that we won't believe you if you say you don't know how to play it. Everyone knows how to play *Tetris* but just in case you're suffering from amnesia - having been knocked out by a falling pigeon, perhaps - check out the Freeze Frame box on the right. The rest of you

know the score anyway, just pile straight in.

There are plenty of other versions of Tetris that are buzzing around in the public domain. Drehdriss is our favourite but if any of you Tetrisheads out there are still dribbling for more, we might chuck another version on the tape in a few months' time. Drop us a line if you think that's a particularly good/bad idea...

Drehdriss controls **Keyboard or joystick control**



frame

IN A SPIN

At the moment you're in command of that block in mid-air (1), you can move it from side to side and rotate it. The idea is to try and get it to fall into place in the melee below (2) such that a horizontal line or two will be formed. When a line is complete it will disappear and the blocks will drop down. (When the pile reaches the top of the screen you're dead.) At the side of the screen it tells you which shape is next on the way (3) - this is dead useful if you're in control enough to be able to plan ahead. The stuff about score and levels and so on (4) is so obvious that we're not even going to explain it. And let's face it, we explain some pretty obvious things...



BLOCKS FRENZY

Tetris was the brain-child of a 30 yearold Russian researcher named Alexey Pazhnitzov. The game was originally programmed by 18 year-old Soviet student Vadim Gerasimov. Little did this double act know that their baby was to become the most famous computer game of all time. Its simple, addictive gameplay has enthtralled millions. (it's the free game with Gameboys).

As for Alexey, he went on to dream up a few games (including updated versions of Tetris, such as Welltris) but none have caught on in the way that Tetris did. Well done Alexey and Vadim, you may be commies but you're welcome to come round to AA Towers for tea any time you like.

TAPE WON'T WORK?

We go to great lengths to make sure that our tape head, and is usually accessible through a covertapes work properly. They are checked small hole. Rotate it a fraction at a time with a jewdirectly after the master copies are made and then eller's screwdriver. When the crispest sound is again once Ablex, our duplicators, have run off a heard, the alignment is spot on. series of test tapes. Only when we give the final goahead are the tapes on the front of the magazine a critical moment. Check the spools in your casactually produced.

If so, the problem may be with your equipment. Try If, after trying the all of the above, you still can't the following:

- you're using an external tape recorder. Computers description of the problem with an SAE to: can be fussy about the volume they will load at.
- Clean the tape heads. This can be done with any commercially available cleaning kit. Or else use a cotton bud soaked in alcohol. Gently rub the surface of the heads and pinch roller to remove that layer of accumulated grime.
- Adjust the cassette recorder's head alignment. The alignment screw is located just to the left of the

sette rotate freely, if necessary giving the casing a However, a few of you may still have difficulty. slight tap against a table edge just to make sure. get the tape to load then you can return it for a • Try loading at several different volume levels if replacement. Send the tape, along with a brief

> **AA83 Covertage Returns**, Ablex Audio Video Ltd, Harcourt, Halesford 14, Telford, **Shropshire TF7 4QD**

Loading: SuperSonic is on side two of the tape and must be run from BASIC. Type RUN"SONICHLP.BAS to load up the detailed instructions file, or (if you're a bit rash) RUN"SONIC.BAS to leap straight into the program. Things will go very yellow for a while but don't worry about that

Yo, make some noise! (Whistles, screams, whoops.) Let's show some respect for this totally safe CPC music program. (Cheers, punching of air, monkey noises.) Big shouts go out to ChaRletTroniC, the Conspiracy posse and Robot PD in the area. (Shrieks, waving of hands, puzzled looks.)

If it's CPC tunesmithery you're after, you've come to the right place, because we've got a neat composer for you this month.

SuperSonic really is excellent. It allows you to write your own tunes, Equinoxe style, using all three sound channels. You can then compile these into a form in which they can be used from within your own BASIC and machine code programs. As well as stonking little party tracks, you can also knock up a title tune for that game you're writing. Even if you're not into any of that, you have to admire it all from a

We're not going to go in to detail about the program here: suffice to say that there is an extensive DOC file included and you can work most of it out from the controls listed below. Get ready to... make some noiii-iiii-iiise. (Coughs, embarrassed looks, knowing smirks.)



· SuperSonic controls Get yo hands on these keys:

CURSOR KEYS	Move cursor
LOADS OF KEYS	Play notes
CTRL + UP	Move to top
CTRL + B	Move to Beat no (enter)
CTRL + 0	Change octave
CTRL + E	Alter volume envelope
CTRL + T	Alter tone envelope
CTRL + V	Alter volume
CTRL + N	Alter noise envelope
COPYC	hange note to new settings
ENTER	Empty beat
CLR	Erase note
TAB	Repeat
CTRL + C	Enter BASIC command
CTRL + R	Alter speed
CTRL + S	Save file
CTRL + L	Load file
CTRL + Z	Save settings
CTRL + X	Load settings
CTRL + V	Cut section
CTRL + A	Paste Section
phew!	

Disk file? Don't worry, it all works perfectly from tape. We just, er, haven't got a 'tape file' logo yet. Here's what you get...

SONICHLP.BAS

program



SONIC.BAS

file that provides extensive music composer that takes the compositions into a format you instructions on how to use the CPC sound chip to its limit. It's can use from within your own



THREE TO MAKE SOME NOISE...

This program loads up a DOC The main program: a brilliant A neat utility that compiles your

and they must be run from BASIC. Type RUN" and the relevant filename

GRADISK.BAS Londoner R M Friend is certainly our... um... friend (geddit). Why? Because he's written this brilliant disk scanning utility, that's why. Tape users can run it too (but not use it).

HEYJUDE.BAS Young Paul Roberts of Warwick is top of the pops at AA Towers with this brilliant version of the Beatles classic.

PUZZLE.BAS A number sliding things, courtesy of Thomas Lovell of Peterborough. Nice one Tom.

two and they must be run from BASIC. Type RUN" and the relevant filename (printed in bold below). See Cheat Mode (page 38) for more details on how to use these pokes

BOUNDER.SM Infinite lives for Bounder on tape

BUBBLE.SM Infy lives and a level select for the Hit Squad version of Bubble Bobble.

RENEGI-T.SM Infinite lives on the urban punch-

RENEG3-D.MW Infinite lives and time on the disk version of Renegade III

RENEG3-T.SM Cor. and the same again for the tape version of Renegade III too.

DRAGON.MW A wide range of cheats (infy energy, time, lives etc) for the ever-so-violent

GRYZOR.MW Infinite lives and retained weapons on Phil Howard's game Gryzor (disk).

TERM-TV.AP Infinite lives on Smash TV and invulnerability on Terminator 2 (both on disk).

Into mountain biking? **Get into MBUK** Team MBUK reveal their high-speed secrets

World championships, what, where, and when

WIN a Trek 700 worth £650

And loads more great action! Only £1.95 in the shops NOW

MBUK - Britain's best selling bike magazine

3.5" Mega Drive £79.95

(Including FREE MS800)

FEATURES

- 800K per disk when used with MS800 (supplied FREE), RAMDOS, ROMDOS. or RODOS.
- DUAL MODE: Mode 1.—The Mega Drive is a complete alternative B drive. Mode 2.—The Mega Drive will also format up to 800K per disk
- SIDE SWITCH switches the disk between side A and side B of your 3.5" disk.
- EXTERNAL PSU. the power supply is external, and should the need ever arise is easily replaceable.
- MULTI-COMPATIBLE The Mega Drive is compatible with almost all other computers, so that if you change computers you can transfer your MegaDrive. Only a different lead and connector required.
- COMPACT SIZE The Mega Drive measures only 7" x 4" x 1".
- RELIABLE The Mega Drive uses the most reliable TEAC mechanism, and assures you of trouble free operation. Full 12 month RTB guarantee.

Overseas Orders Welcome

MS800 - the STANDARD in 800K storage... MS800 enables the Dual - Mode disk drive to store up to 800K per disk. Since it was introduced in 1991 it has become the biggest selling software of its kind, by far. So

much so that many people have converted their earlier 3.5' and 5.25" drives to dual mode capability, and switched to

FEATURES INCLUDE;

360K, 400K, or 2 x 180K per side. Compatible with all CPC and CPC+'s CP/M+, MF11, Stop Press; and all other software. 64 or 128 directory entries; verify disk; disk copy; file and batch copy. Unlike most alternatives each disk initialises the computer for its own format without using up any of the storage space. Once a disk has been formatted, MS800 itself is not needed.

Formatting up to 400K each side needs a SIDE SWITCH on the drive. We can supply a side switch and simple fitting instructions, suitable for 3.5" or 5.25" disk drives

Side Switch with instructions

SPECIAL OFFER 50 X 3.5" Disks & Disk Box !!! £29.95 !!!

MP3 TV Tuner	£29.9
CT1 Clock/Radio/Alarm	£14.9
MP3 & CT1	£39.9

MAXIDOS (with FREE PROCOPY)—£13.95 THE MOST COMPREHENSIVE & EFFECTIVE GENERAL DISK UTILITY AVAILABLE FOR THE CPC

MAXIDOS is fully compatible with RAMDOS, AMSDOS, and

COPY files/disks; VERIFY disks; RESURRECT erased files; FAST FORMAT Amsdos/Ramdos/Romdos; IDENTIFY format: CAT files (including erased ones) optional status/address/length/etc; ALTER user areas; MAKE/UNMAKE system or read only; DIS-PLAY or PRINT filesand MUCH MORE. BEST sector editor EVER for the CPC. All standard editing facilities, PLUS file map ping to screen or printer, auto step by step movement through a file, string and byte. SEARCH through file/disk. FILE ARCHIV-ER backs up disks to tape; variable baud rates. SPEED up your disks! Unique optimise, re-arranges your crowded disks, making them load up to 50% faster.

Trade Enquiries Welcome

BONZO SUPER MEDDLER.....£13.95 now includes the BONZO HACKPACK - FREE! The most comprehensive tape to disk utility. Supplied on disk with a huge database of verified transfers. Produces stand alone transfers.

BONZO BLITZ.....£13.95 now includes BONZO'S DOODAH and 4 adventure games - FREE! Tape to disk transfers. Deals with all forms of SPEEDLOCK, Works

on all CPC's and produces stand alone transfers. Huge database of verified transfers

BONZO BIGBATCH.....£9.95 FAST, FLEXIBLE database. Superb football pools predictor, plus a user friendly memory saving SCREEN & SPRITE DESIGNER.

BONZO FLASHPACK£9.95

"The best all round BASIC extension program" WACCI. FLASH BASIC adds around 70 extremely useful RSX's to use in BASIC pro grams. The resulting progs will run on any computer without the presence of FLASH BASIC. Includes a database and other excellen

ABBA Switch (6128).....£12.95

6128 ROM£24.95 (Including fitting instructions)

FILE TRANSFERS

CPC To/From PC's, PCW's and Others 2 in 1.....£24.95 MFU......£29.95 (Both programs run in CPM+ NOT CPM 2.2)

464/464+ OWNERS

Want a DISK DRIVE? Cannot fine a DDI-1? Exchange your 464 for 6128..

Exchange your 464+ for 6128+ It's cheaper than buying a DDI-1, Rampack, & ROM

OTHER ITEMS

	3.5" Disks (Mitsubishi Branded) (10)	£7.95
	3.5" Disks (Ex Software House) (10)	£5.95
	3" Disks (Amsoft) (10)	£19.95
	3" CF2 Disks (Branded Bulk) (10)	
ı	Plastic Cases for CF2 3" Disks (10)	£5.95
	3.5" Disk Box (Holds 50)	£7.95
١	3"/3.5" Disk Drive Head Cleaner	£4.95
ı	Printer Lead	£7.95
1	64K DKtronics RAM PACK	£39.95
١	6128+/464+ Adapter	£9.95

Phone your order before 3.00pm for same day dispatch

All prices include VAT, postage & insurance for U.K. & BFPO. Overseas orders charged at the cost of airmail

CREDIT CARD ORDERS (24 HR SERVICE)

Phone 0772 70

Fulwood, Preston PR2 0772 Street Phone 077

regerion



"Schools out for Summer," sang Alice Cooper all those years ago. Providing he was singing around this time of year, he was right. Good old Alice, eh? ADAM PETERS, meanwhile, has soaked himself in sun-tan lotion, stocked up with ice pops, and is now lying on the sun-bed sorting through your mail. Write to him at: Reaction, Amstrad Action, 30 Monmouth Street, Bath BA1 2BW. You could win some money (if you're lucky)...

COVERTAPE HASSLES

When I bought the June issue of AA, with The Addams Family demo on the covertage, I thought the AA gang had done it again with another ace tape. Then I got home and discovered that it needed 128K to run. I was so mad.

If you are going to give away games and demos, make sure they work on all computers instead of just a few. This goes for Type-ins as well.

Daniel Truen Aylesbury, Bucks

Adam: This is one of a number of complaints we received about the 128K only demo of The Addams Family on the AA81 covertage. The fact of the matter is we didn't find out that The Addams Family was 128K only and, worse still, so badly coded that it would take up a whole side of the tape, until the program was in the hands of our tape compiler. Ocean didn't tell us in advance, and by then it was too late to get anything else

We would have included the demo anyway (for the benefit of our 128K readers), but would have tried to get an extra full game (better than Forbidden Planet) on. As we've said, though, by the time we found out it was too late. Sorry.

As for Type-ins, it's being taken care of even as we speak.

AA DISSED SHOCKER

Will you please forgive me. I have sinned. I bought a copy of CPC Attack. You will be pleased to know it is totally rubbish and will be no competition to you. I started to read the rules in their competition page, and when I got to the bottom I found something very disturbing (about peo-

I quote: "They may also be punished with a free subscription to Amstrad Action." See what I mean! If you go around to beat them up please tell me as I would love to help you!

Matthew Howley St Agnes, Cornwall

errers

Adam: Here's one of over a dozen letters we have received complaining about that quote. A few AA subscribers have announced that they will never again buy CPCA as a result of this attack. But what do the dudes at AA Towers reckon? We're just going we're concerned, the more CPC magazines there are the better, so good luck to them.

AN IDIOT WRITES

I am writing to complain about your covertape for June 1992. Your magazine is purchased every nonth for a seven year old boy, as soon as we get the magazine we-transfer the tape to disk for use on his CPC6128. This month I was not at all happy with the results. Firstly in the Forbidden Planet Hall of Fame there was the phrase "Don't give a Damn",

not what I would want a child to think was the correct way to speak. This was quite mild when compared to what I found when I used my copy of Knife+, that I use on my PCW9512, to alter the file 1.BIN. Apart from the thinly disguised sentence about a rampant rhino (! - Adam) I found phrases with the words SEX. F*** and S*** - ie "Please s*** somewhere else". These are certainly not words most people would

want a child to be

familiar with and I

would be sur-

E CPC Attack threatens to punish readers with an AA subscription... prised if many adults would want to

see them as part of a game

I'm sure that if these words and phrases had been put into PRINT statements in a BASIC program for one of the Type-ins you would not have printed it. Why then do we have to put up with them on your

Mr M A Bradley Radcliffe-on-Trent, Notts

Adam: Here's an address for you, Mr Bradley: Points of View, BBC TV, Television Centre, Wood Lane, London W12 80T. You could start by complaining about them screening Gone With The Wind at 2pm on New Year's Day. Lots of children could have been to ignore it frankly and hope they grow up. As far as corrupted by the language ("Frankly, my dear, I don't give a damn" - Rett Butler).

You really have no business interfering with the code, Bradders. Had you actually been competent enough to understand what was happening, you'd

know those words were there because the high score the game, and not the game for Forbidden Planet? Only if



No doubt you're the sort of person who complains about swearing that programmers leave in the code for hackers to encounter. Maybe, just maybe, you shouldn't be hacking into the code in the first place. And I hope you're not teaching that seven year old to hack! Heaven knows what trouble (and swearing) he'll encounter. You are a profes-

sional idiot Mr Bradley, and I claim my five pounds.

P.S. We get quite a few letters from loonies, but most just get thrown straight in the bin. Just for a bit of fun, though, we're going to run an Idiot of the Year compo. This is the first entry. There'll be three more featured in Reaction over the next three months. At the end of that, we'll be asking YOU to send in your votes for the official AA Idiot of 1992. We'll send the winner a trophy of some sort. But please, however tempting, don't send in any votes now. Wait till vou've read the other three entries...

maryanne's mail



Well it's been a month full of surprises here at AA, the best being my promotion to Art Editor of Sega Power. I'm so excited I've talked about nearly nothing else since, that's why Adam has decided to let me answer my mail again this month to shut me up for a while.

"Dear AA (not Maryanne), Why don't you sack Maryanne? If she's that interested in cute fluffy animals she should work for the RSPCA. not AA, and I agree with Naomi (AA81) that you should shoot her. And Hugo's a daft name for a teddy. It should be called Cedric, like mine." Emma Bayetta, Lincs

You'll be pleased to here of my imminent departure then Emma. I wasn't aware that caring for the welfare of animals was a sacking offence! I'll have to check my contract for that clause. And as for calling a teddy bear Cedric, that's not a very nice name for a teddy bear. It'll probably grow up to be really evil with a name like that. And anyway, I didn't choose Hugo's name. I let him choose his own

"How come Maryanne is spelt with a small 'm' in Maryanne's mail? After all, I think you should have your very own magazine and if you did have your very own magazine it would be so brilliant that it would cost £100.000.000 for each issue. As for Naomi whose letter appeared in AA81; Naomi why don't you go suck an egg, because Maryanne is the most brilliant person in the whole universe." Thomas Payne, Wales

Thank you Thomas for a very nice letter. There's no real reason why my name has a small 'm' in Maryanne's mail, only that Ange thought it looked nice that way. Also I'd like to thank you for your recommendation, it would seem that Jane the publisher agrees with you, I have sort of got my own magazine now. It doesn't cost £100,000,000 per issue though, it's a bargain at only £1.95. Don't be too hard on Naomi, she has suffered enough (see below). You're brilliant too, Thomas.

"Dear Maryanne and Hugo. The day the June AA appeared in the shops. I got a phone call from three of my (ex-) friends. They told me they had written a horrid letter to you, using my name, because I said I agreed with everything you said and they didn't.

"They told me what they had put and then said that if I told you they'd torture Beebee (my Forever Friends teddy) and fire catapults at my kitten, Snoodles. But I have been brave and told you, because I was horrified and shocked to see the letter, the mindless, violent. putridly disgusting letter, had actually been printed. I don't know what the editors must have been thinking of to have put it in

"I must say that Hugo, dear, sweet, cuddly Hugo, needn't be scared; they couldn't put him in prison

"Please, please print this letter (the people concerned know who they are) to bring my mindless, violent (ex-) friends to shame. They are the sort of people who buy baby bunnies, then feed them to snakes. I don't like them any more, and I don't suppose you do either.

"PS I don't like shooting stuff in Rodland either. Do you like the colour pink?" The Real Naomi, Macclesfield

Hello Naomi, Beebee and Snoodles. I am terribly sorry to hear what you have suffered at the hands of your so-called friends. I do hope you are feeling better, and I am glad you have felt able to write to me about this unfortunate misunderstanding. You mustn't hate them though Naomi, they are to be pitied. I think we've given them enough attention now so let's forget the whole episode. I'm glad you don't like shooting the creatures in Rodland, and I love pink (but pale blue is my favourite colour).

Thank you for your letter and give Beebee and Snoodles a kiss from me.

"Hello Again! David here, from AA78, again. I've tried my luck with the girls in Orpington, as you suggested, but I've had no joy. Any further advice? Better still, how about you relenting and agreeing to marry me?

"I reckon that if you replace all the mug shots of Rod and Adam with pictures of you stroking fluffy animals, AA's circulation would soar. How about it? After all, you are part of the art department..." David Rand, Orpington

David, I am sorry hear you've been unlucky in finding a nice girl, maybe you are trying too hard. As for advice, just be yourself; be kind, complimentary and polite, and smile a lot. They'll be falling over each other to get to you, as soon as you stop trying. Thank you very much for your proposal, Adam thinks you're a few sandwiches short of a picnic. either that or I slipped you a fiver. Whatever, I'm sure you can do a lot better than me

I'll let you into a secret David, I hate having my picture taken, that's why Adam insists on making it necessary. Even when I was the AA Art Assistant I didn't get to choose all the pictures. Anyway, good luck David.

Well, I guess that's it then. Well not quite, I'll still be around so don't fret, and for those who want to. you can still write to me. I'm sure if I ask Adam nicely he will pass your letters on. See you all again

> Lots of love, Maryanne

The AA Conspiracy...

What's going on? Just take a look at this AA group shot taken less than one year ago. Notice something? That's right, out of the SIX people visible in this photograph, only TWO remain. Is there some pattern to these disappearances? From left to right in the group shot: GONE CHERYL BEESLEY: Cheryl now works on sister publication Amiga Format. Why? SURVIVING ADAM PETERS: Adam always sits where he can watch the door. Why? SURVIVING ROD LAWTON: Rod never enters the office without counting the poeple in it. Why? GONE ADAM WARING: Adam has now left Future Publishing, and the country. Why? GONE ANGEL NEAL: Angela has moved to Brighton. Why?

GONE MARYANNE BOOTH: Maryanne has been moved on to a Sega Magazine. Why? Theories on a postcard please to: AA Conspiracy, Amstrad Action, Beauford Court, 30 Monmouth Street, Bath, Avon BA1 2BW,





How to write best-selling games

DR BERTRAM X FEGG built himself up into such a rage this month that his letter exploded in transit and arrived at our office in one of the Post Office's "Sorry we're so crap" plastic bags. Totally true, that. We wouldn't lie about an exploding letter.

You couldn't be bothered to run a PD library, and you still don't understand your DTP package's manual, so that puts the fanzine straight out the window. So how are you going to earn your millions? Easy. Write a charttopping game.

The money you can make from these things is colossal. For example, take the author of Tetris. Before he wrote what is possibly the world's bestselling game, he was a poor impoverished Russian in a university **Adam sells another** hero, simply draw a circle and put two studying computer science. After he copy of Lost Caves!

sold his masterpiece to the capitalist running-dog imperialist West, he had enough roubles to buy himself two pairs of Levi's and an Amstrad stereo (circa 1978, complete with that authentic crackle whenhones that with the release of his next blockbuster. he'll be able to afford a loaf of bread.

Closer to home, take the case of AA's very own Tech Ed. Adam Waring. Before he wrote the infamous Lost Caves, he was eking out a meagre that you might be in with a chance of getting the existence on £30 dole a week. The enormous sales of his game pushed his earnings up to a massive £32 per week, so much that he had to come and work for AA to have enough money to fund his infa- the loading screen and the title music. For example, mous social life.

Actually, games don't have to be any good to earn you any money. Lost Caves might have seemed awful, but comparing it to Outrun is like comparing Ayrton Senna's driving skills to Maryanne's, and just look how much money the programmers made from it. The secret is to find a formula that will sell.

Once more, it's Fegg Enterprises to the rescue. Fegg Enterprises will sell you my new program, Small Round Cute Thing Construction Kit, for only £1499.99. Although this might seem a bit expensive, it will in the long term make you more money than, erm, writing articles for AA.

The theory behind it is that CodeMasters has made loads of money selling games starring Small Round Cute Things (Dizzy and Seymour). All these You could get rich writing games. Oh games basically consist of a Small Round Cute yes indeedy. (And pigs might fly.)



Thing somersaulting through a flickscreen. Spectrummy landscape. picking things up and using them in the right places. So you can make equally huge amounts of money by drawing your cutesy hero, designing a few screens with the odd monster floating about the place, thinking of a few puzzles, and feeding this lot into the Small Round Cute Thing Construction Kit. It's not as if doing this is difficult, either. To draw the eyes, a nose, a mouth (preferably in a

stupid smile) and some feet on it. The puzzles are simple, too, and the Construction Kit even comes with some to get you started. For example: Splud (our hero) has been locked into an Easter egg facever you adjust the volume) on the black market. He tory for a weekend. Can you save him from being made into a round-ish hollow chocolate ball? And more to the point, do you really want to?

If you can't stand this sort of game, there's still hope for you. All you need to do is to worm your way into the favours of a major software house, so contract to program one of their celebrity tie-ins. There is one simple rule for these: the only things which should bear any relation to the celebrity are if asked to write Neil Kinnock (the Computer Game), you could get away with programming something about a successful politician who actually

credibility a bit too far. Or how about the coveted Canary Wharf licence, where your aim is to fill the building with tenants before your money - whoops,

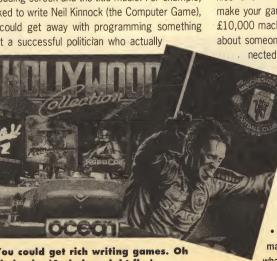
wins elections - although possibly that's stretching

The other major league money-spinners, of course, are film tie-ins. However, be careful here. Just because the acting in your chosen film is appalling isn't an excuse for lousy programming -"honest boss, I was trying to make it like the real film" – although in the past people do seem to have got away with this. Similarly, even though the film might look like this when they show it on the TV, restricting your game to a narrow band across the middle of the screen with huge black borders at the top and bottom isn't going to recommend you for future programming contracts either.

Once you've done all the hard work of writing your game, the only bit left is to package it and sell it to a software house. To make sure that those nasty evil pirates don't do you out of your hardearned cash (although I'd be surprised if there are any pirates left after those FAST ads that appeared in magazines a while back - they must really have got people scared, I bet all the pirates in Britain stopped overnight after seeing those), you need to protect your game against copying. Some companies offer a service where for one grand they'll make your game so that it can only be copied by a £10,000 machine (obviously those rumours I heard about someone doing it with a three-inch drive con-

> nected to a £300 Amiga are false, then), but Doctor Fegg – as always – has the answer, for the bargain price of five hundred guid. The new system is called "Fegglock", and simply consists of a message on loading that says: "Doctor Fegg knows where you live". Now that will scare people more than a pathetic advert with a picture of a policeman's helmet...

Next month Dr Fegg might be in the mag or he might not. It all depends on



what happens with the aubergines.

YOU KNOW THE COMPUTER YOU'VE ALWAYS

part two the front page

Just when you thought it was safe to turn to page 12 without encountering the second part of our DTP series, ADAM PETERS turns up and vour worst fears become flesh...

So you've got your words. Now you want some pictures and a bit of a layout, right? Magazines that are just wall-to-wall text might be look half decent.

can use in your mag; photos, drawings and design elements. Let's look at each in turn and what you ostracise you. (With a corkscrew.) can do with them:

1) PHOTOS Ripping photos off from other magazines, books and newspapers is well dodgy and illegal, but it goes on all the time. Not only is it but photos from other publications will have already been 'screened'.

Screening is a process that turns photos into collections of little black and white dots (look 3) DESIGN ELEMENTS What on earth are closely at any of the black and white pics in this mag to see what we mean).

Once processed in this way, photos will reproshapes and such like produced on a duce a lot better when printed or photocopied. Try photocopying an ordinary picture (especially a colour one) and you could end up with something with no greyscale (only black and white) or loads of smudges, and the whole thing will be a horribly blurry mess. Screened photos can be photocopied without losing any of the detail or quality from the

If you're using photos you've taken yourself, and you really want them to look good in the magazine. it's well worth going down to Prontaprint (or somewhere similar) and getting your photos screened. It costs about £10-15 per A4 sheet's worth (approx 3-4 photos), and it works with any photos at all.

2) DRAWINGS There are two different types of drawing; ordinary, hand-drawn stuff (cartoons, illustrations etc) and computer drawn stuff (including popular with a few techieheads, but you really need that old fanzine standby: clip art). Anything handto start piling in the illustration to make the mag drawn needs to be good, so if you're crap with the sional' look, be sparing with the number of fonts old felt-tips get a talented chum to do the drawing

places – is a bit sad, though a lot of fanzine editors seem to go in for that approach. There is a lot of usually one of the same fonts at a different size. cheap (providing the person who took the photo clip art around on the PD sceñe, and it's obviously a remember: laziness is the enemy of quality, as we quadrilateral with four equal sides. at AA know all too well. (Speak for yourself - ed.)

> they? Well, they're the third type of illustration and they're basically just the DTP package; boxes, circles, frames etc. Most people don't think of these things in the same way as they think of photos or cartoons as illustration, but these design elements are an important tool in livening up pages.

Instead of just having one long wodge of text, it looks so much nicer to have a few sections pulled out and boxed off separately. Little snippets of info (e.g. the date the next

issue is out) look a lot more interesting when the text is dropped in a circle. Flick through this issue of AA, and any other mags you might have lying around, to see some of the techniques professional designers use to make pages look fab and groovy.

There are other things to bear in mind when laying out pages. For a start, when deciding on the order of pages, chuck things that look good together on spreads. For example, if you've got a single page article that is pure text, place it alongside a page that is heavily art-based (a cartoon strip, for example). This is very much a case of trying things out and trusting your own visual judgment. It's a good idea to leave the page numbers (if you're going to have any) till right at the end though. Work out the exact order of the pages once they're all done. These can be juggled around where necessary, till you're happy with it.

Another tip: if you want to go for that 'profesyou use. There is always a temptation to use every There are three different types of illustration you for you. No-one cares what the text is like, but if the font you've got at your disposal, but take a look at cartoons are naff your friends and relatives will any high street mag and you'll see the pros only ever use two or three different fonts for the entire Clip art is quite useful in helping to liven up magazine. Normally it's one font for body text (e.g. pages you can't find any other illustration for, but what you're reading now), one font for box-outs using it to excess - and in wholly inappropriate (e.g. Using the technology, below) and one font for headlines, with other things (intros, captions etc)

Next month's (final) instalment looks at printdoesn't spot it and demand a copyright payment), lot less hassle than doing your own drawings. But ing/photocopying and distribution. Be there or be a



Using the technology

So do you need an art package to produce illustra- their disposal, or no money for additional purfunctions to produce all the little drawings that I covertape. needed. The problem with art packages is that and white illustrations anyway.

OCP Advanced Art Studio. People with only 64K at ing (if expensive) Stop Press program.

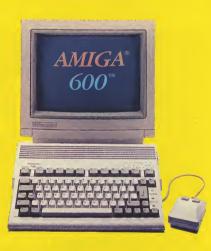
tion for your fanzine? Strictly speaking, no. I always chases, could do far worse than use the excellent but PowerPage is a more than worthy alternative. found that DTP packages had quite enough art PD prog GPaint that we featured on our May AA's PD and fanzines maestro Tim Blackbond actu-

As far as desktop publishing goes, we covered

Stop Press has the most functions and facilities. ally rates PowerPage as the better of the two!

Other things you might want to get into are they're mainly concerned with producing things in the options in the Buyers' Guide two months ago. If scanners, which allow you scan artwork into your full colour, Colour printing is so expensive that it's you're a tape user, you can go with either computer where you can re-size and edit it to your not really practical, so you'll only be wanting black Pagemaker Plus-T by Alan Scully (AA76 covertape) heart's content. Ring Dart Electronics on 0502 or Page Setter 64 from SD Micros. If you've got a 513707 to ask about its scanner. Users of If you do want to use an art package to produce disk drive you make use of Richard Fairhurst's bril- MicroDesign, an excellent clip art led design packsome really detailed mode 2 pics, our Buyers' liant PowerPage (on last month's covertape) or - if age, can make use of the scanning service offered Guide last month didn't hesitate in recommending you've got 128K at your disposal - the totally stonk- by a company called Subtle Changes (041-422 1601).

WELL, STOP DREAMING



THE NEW AMIGA 600 HAS ARRIVED









COMPLETE WITH FREE "AT HOME" MAINTENANCE FOR I YEAR

PACK INCLUDES DELUXE PAINT III; WORKBENCH AND ONE GREAT GAME! AMIGA 600 £399.99; AMIGA 600 HD £499.99. (Prices include VAT).

Yes, this is reality. And yes, the world's best-selling home computer has been improved.

As soon as you get your hands on the new Amiga 600, you'll know you're dealing with something special. A lot more compact than the Amiga 500, yet packing even more punch, this machine is all you'd expect a 90's computer to be.

For example, it incorporates the very latest "Smart Card" technology which means quicker and easier loading than ever before. AMIGA 600

What's more, the Amiga 600 will also run existing Amiga software titles - by far the largest range available for any 16-bit machine.

Of course, coming from the legendary Amiga family, the outstanding graphics, mind-blowing stereo sound and IMb RAM (expandable to 10Mb) will come as no surprise to anyone.

But if you really want to get serious, the unique Amiga 600HD with its impressive built-in 20 Mb hard disk is for you.

And as if all that wasn't enough, we'll even come to your own home to repair your machine in the unlikely event of a malfunction.

> Wake up to the Commodore Amiga 600. It's everything you've been waiting for.

> Call free on 0800 68 68 68 for your

Available at most quality computer outlets. *Monitor not included. Smart Card titles and CD ROM upgrade to be released soon. †Software not included with Amiga 600HD.

C Commodore

We're always going on about the French CPC market and how wonderful it is, aren't we? "Prove it!" you clamoured. "We will!" we retorted, and hopped on a ferry to Boulogne, just two hours from Dover, to check it out personally...

Crikey, seems a bit of a palaver, doesn't it? Going all the way to France just to buy some software? Well maybe it's not as daft as it seems. Did you know (for example) that the ferry crossing from Dover to Boulogne takes only 100 minutes? Well you do now. Not only that, it's pretty cheap, too. Foot passengers can zoom across the channel for just £23 each (return), or just £12 for kids. (Actually, Adam and Rod went for just £12 each -P&O must have made a mistake.)

So, provided you don't live too far away from Dover, a trip to Boulogne makes a pretty comfy day out. We took the 10:15 from Dover, which arrived at Boulogne at 11:55, then came away again at 7:15, arriving back at Dover at 8:55. The ferries leave at 2-hourly intervals at those times of day, so you could come home earlier if you wanted to.

The whole point of going over to France you see, as far as CPC owners are concerned, is that richly deserves. We've said lots (and lots) of times continental life - and it's so easy to get to!



that the CPC was the best-selling format in France. and here's the proof. In the Auchan hypermarket just outside Boulogne (the equivalent of an Asda) there were shelves packed with CPC releases - we counted over a hundred.

Most of these were games available in the UK. Or at least, games that have been released in the UK. The point is, as so many of you have been writing in to tell us, that you simply can't get them in the shops now - especially on disk.

The good news is that the Frenchies love disk games. In fact, most software sales over there are on disk. For some reason no-one has ever been able to fathom, the French are far keener on disk machines, even though tape machines/games are freely available. (Although part of the reason may be the price of the hardware - the 6128 Plus was on sale in the Auchan store for the equivalent of £300!)

The Auchan store also featured a system some the French give the machine the prominence it so Boulogne gives you a taste of the exotic UK stores have dabbled with - and then abandonned - in-store duplication. The system works

like this: you go through the shelves of software, choose the game you want, take it up to the counter and get it duplicated on to whatever format you want. This system was used for all the budget games in the store (full-price games were sold separately), and is a great way of saving space as well as offering maximum choice. Why? Because most games are released on several formats, but with instore duplication you only have to display one box for each game. The box inlay contains a list of the versions available, and these are colour-coded so that you can quickly see whether the game comes in a version for your machine.

There's even better news than this, though. The UK has a very strong budget market, but annoyingly – budget software houses never release games on disk. If you've got a 6128 but like (or can only afford) budget games, you have to put up with loading from tape all the time.

French CPC fans have it easy. You see you can have your game duplicated on to disk instead of tape, if you want to! The price is higher, but still far, far below the price of full-price disk games.

Some games have loaders that prevent them from running from disk, but most in the Auchan store were available on either format. Hurrah!

Software prices were - perhaps surprisingly very similar to those in the UK. Budget games on tape are around £4, full-price tape games are £12 and full-price disk games are £17. The good news for all those fed up with indifferent arcade conversions and interminable film licences is that budget games on disk are £7

saw weren't available in the UK – including an Amstrad version of Chessmaster 2000 from French software house Ubi Soft, What the French do have, however, is a huge supply of games... and you can get most of them on disk!

11111111111 There are other things to do in Boulogne apart from shop for CPC games. Well, let's face it, there have got to be if you are to stand any chance at all of getting your folks to organise the expedition in the first

THINGS FOR FATHERS:

The ferries are all equipped with fully-licenced bars. there are loads of licenced brasseries in Boulogne and the supermarkets contain numerous shelves groaning under the weight of stupdendously cheap beer (we're talking 25p a bottle here). Watch out for cauliflower ears, though, since the wife will notice all those sidelong glances at those astonishingly attractive French girlies. Other points of interest include counting the number of cars with UK plates (and reading them all aloud) and practising dodgy French on bus drivers and waiters who always answer in English anyway.

THINGS FOR MOTHERS:

There are tons of clothes shops and places to buy pongy perfumey stuff (you can get duty-free perfume on the boats, too). All the clothes shops in Boulogne look incredibly chic because they have sexy French names (which probably translate to things like 'Togs-u-Like' and 'Boulogne Charity Shop). Do watch out for a 'Naf-Naf' shop, though... So what is there for mums to do instead of shopping? Ah, what indeed... you don't think they came over to check out the sights, do you?

THINGS FOR SISTERS:

Sisters will usually hang out with their mums, descending on the clothes shops in a flurry of waving arms, waving cheque books and releasing assorted hoots and howls. Sisters may also stand/sit around gazing at the French boys and being unutterably hope that a sister will run off with being beeped at. -----

some swarthy French lothario, but the parents are - regrettably - all too likely to step in at the last

THINGS FOR BROTHERS:

Other things to do in Boulogne

Older brothers will usually hang out with dads. while younger ones will, almost certainly hang out with you. If you can leave a younger brother on the boat, all the better. Otherwise, you will have to put up with him dragging round behind you all day wanting sweets, toilets, mum and dad and to go home. There's not much you can do about this except point him at the toy dept in the Auchan hypermarket while you take a look at the CPC stuff. Or there's always Boulogne's rather spanky beach. If that doesn't keep the little blighter happy, there's always the Centre National de la Mer where, with any luck, he'll get eaten by a shark.

THINGS FOR AUNTS/UNCLES/ **GRANDPARENTS**

There are lots of signs to Dunkirk to point out, and lots of reminiscences about Hitler, the Blitz and Jack Hawkins. The pavement cafes are great places to complain about the price of the coffee and the unavailability of tea (it spoils their fun when they find out they can just ask for thé). Ther region's 'best-preserved citadel' can be found in Le Haut Ville at the top of the main street, which is bound to be a good bet for oldsters. Other sights include the basilica of Notre Dame (not as big as the Paris one, though). Uncles and grandads can also browse through the 'tabacs' trying to buy Old Holborn, while grans & aunties can stand in the gutsickening. There is always the faint ter waving their sticks at passing Citrôens and

Things to do... Things to do...



GET A PASSPORT

There are three different passport varieties you can get for your trip to sunny Boulogne. You can get a seriously heavyweight tenyear passport (useful if you're going to be doing lots of travelling in the future), a one-year 'Visitors Passport' (which we got, 'cos we're a bit weedy) or a short-term Excursion jobbie, which is cheaper still but only any good for one-off trips. If you're travelling as a family, you can get all sorts of family-type passports which the nice people at the Post Office can explain better than we can. You don't need any visas or jabs (for Boulogne, not the Post Office).



BOOK YOUR TICKETS

Ferry tickets are available from any travel agents. You are supposed to book a month had a fancy computerised booking system that let them check there were spaces right there and then. a lot less fiddly than flying. (And a lot cheaper, for



CHANGE SOME MONEY

There are plenty of places to change currency, both at the ports and on the boat. in advance, but we didn't. We managed to get tickets There's no rush, either. If you haven't got time to just ten days before we wanted to go... but then we change money at Dover or Boulogne, there's a bank were 'Foot Passengers'. We weren't taking a car over on the boat - and you've got a 100-minute crossing (for a shopping trip to Boulogne you don't need one), to sort yourself out. How much do you change, so maybe that made a difference. Our travel agents though? 'Buying' currency always costs you a certain percentage of its value. Contrary to popular myth, you can change coinage. The bank on the boat would It's not as easy as getting a train or a bus, but it's all change anything down to 2F coins (about 20p). So don't worry about coming back with loads of unusable French dosh.



GETTING TO DOVER

Dover is a pretty easy place to get to. thanks in no small part to the M25. Depending on where you're coming from, you may have to make allowances for traffic at certain times of day, though. We travelled anti-clockwise in the morning (from where the M4 joins to the Dover turnoff), when most people are travelling anti-clockwise we had no problems. In the evening we were travelling clockwise, but long after the rush-hour was over. We had no problems either way. When planning your journey time, allow for an average speed of around 60mph (unless you're an old granny).



PARKING THE CAR

The short-term car park at Dover (that's the one you'll want) is none too huge, but wasn't that full when we arrived. (This wasn't during the school holidays, though!) Unless you've driven to Dover before, finding the car park won't be easy. You'll arrive at a row of identical-looking gates and see lots of notices that don't seem to apply to you. Expect to be redirected at least twice, and make sure the guys on the gates know you're foot-passengers. OK, we'll tell you... the lane for the car park is on the far right. The car park will cost you about £4 for the time you're away.



BOARDING THE FERRY

You're supposed to check in at least 30 minutes before the departure time to be sure you make it, but we breezed through in no time. Again, though, this wasn't during the school holidays. The departure lounge at Dover is pretty spanky, with shops, a place to swap your cash, loos and all sorts, so you'll be comfy while you wait. The system is that you go to the P&O desk (or whichever company you've booked with) and get your boarding pass and return ticket. Then you wait until you're called. Then you file past the desk, get on a courtesy bus and get plonked down by the ferry.

TSIISIIV - NOITOV GALTSIIV

All al Auchan

While you can get CPC software in lots of different places, the Auchan hypermarket was the one that really left us gobsmacked.

First of all, it had shelves packed with full-price software, lots of which was for the Amstrad (in fact it was second only to the Amiga for shelf space). Cop this little lot, for a start:

Addams Family disk, 169F
Back to the Future 2 disk, 159F
BAT disk, 299F
Chessmaster 2000 cass, 169F
Cisco Heat disk, 159F
Double Dragon 3 disk, 179F



■ What's this? Chessmaster 2000 on the Amstrad!

Gun Boat	disk, 159F
Jack Nicklaus Golf	disk, 159F
Lemmings	disk, 179F
Predator 2	disk, 159F
RBI2 Baseball	disk, 169F
Robozone	disk, 159F
Star Control	disk, 159F
STUN Runner	disk, 159F
Teenage Queen	disk, 209F
Thunder Jaws	disk, 159F



■ Look! Lots of compilations we've never seen before!

Apart from all those full-pricers, the French seem to go in for compilations in a big way, most of which we've never heard of (the games themselves are familiar, though):

Intégral disk, 229F
Lotus Esprit Turbo Challenge,
Toyota Celica GT Rally, Super
Scramble Simulator, Supercars
Bond Collection disk, 279F
The Spy Who Loved Me, Licence
to Kill, Live & Let Die

Hudson Hawk, Rainbow Islands, Shadow Warriors, Grand Prix



■ Nearly 100 titles are available at budget prices!

NRJ: Compil-Action 4 disk, 259F
Prince of Persia, Sim City, Tennis
Cup, Barbarian 2, Swap

We also found one yes, just the one cartridge game! There was one, solitary copy of *Klax*, on offer for 299F. We can't see that one shifting very quickly...

£4 CASSETTE, £7 DISK...!

By far the biggest range of games was available via Auchan's software duplication system:

duplication system:		
500cc Grand Prix	cass	disk
Adv Fruit Mach Sim	cass	disk
Advanced Pinball Sim	cass	disk
Advanced Rugby Sim	cass	disk
Advanced Ski Sim	cass	disk
Airwolf	cass	
Airwolf 2	cass	
Army Moves	cass	
Battleships	cass	disk
Beyond the Ice Palace	cass	
Big Foot	cass	disk
Bomb Jack	cass	
Bomb Jack II	cass	
Boulderdash Const Kit	cass	disk
Buggy Boy	cass	disk
Cavemania	cass	disk
Chicago '90s	cass	disk
Cobra	cass	disk
Colossus 4 Bridge	cass	disk
Colossus 4 Chess	cass	disk

Commando cass disk Count Duckula cass disk cass disk Dizzv Dragon's Lair cass Dragon's Lair 2 cass disk **Edd the Duck** cass disk cass F1 Tornado cass disk Fallen Angel cass **Fantasy World Dizzy** cass disk **Fast Food** cass disk Fire & Forget cass disk case disk Football Man: W Cun cass disk Four Soccer Sims Fruit Machine Sim cass disk Galactic Conqueror cass disk Game Over cass **Ghosts & Goblins** cass Gilbert: Esc from Drill cass **Guardian Angel Highway Patrol 2** cass disk Impossamole cass disk Jaws cass Jocky Wilson's Darts cass disk Judo Uchimata cass Kwik Snax cass disk Las Vegas Casino cass disk League Challenge cass disk Little Puff cass disk Mach 3 cass disk Magic Land Dizzv cass disk Mercenary cass disk Mig 29 Soviet Fighter cass disk Munsters cass

SPEAKING OUR LANGUAGE?

There are two problems with going over to France to buy CPC software. The first is communicating – how good is your French? Fortunately, most of the locals speak pretty darned good English (better than your French, anyway). And all the types who regularly come into contact with English tourists speak to you in English whether you speak to them in French or not. But how do you play a game written in French? Well, quite easily, actually, because nearly all of the games on sale over there are from UK publishers! Even the French softies print English translations in their instructions – English is the international language of computer gaming.

Shopping around

The Auchan hypermarket wasn't the only place in Boulogne to buy CPC software. In our short stay we found two more shops selling Amstrad games.

BOULANGER

Just over the road from the Auchan hypermarket was a shop called Boulanger (it looked a bit like a Currys or a Rumbelows). It was a bit posh inside, and concentrated on fridge/freezers, TVs and the like, but there was a computer section and a selection of CPC games, including lots of compilations we didn't even see at Auchan. Hurrah!

There were also four games on cartridge! These were: Klax (again), Mystical (we never knew this was on cart!), Plotting and Tennis Cup 2.

MAJUSCULE

You don't have to go outside Boulogne to find CPC software. We didn't have time to explore every street with shops in the town (there were at least 632... probably), but we did find this place. In fact, as we suspected, CPC software is available all over the place.

OR TAKE A TRIP TO CALAIS...

Calais is pretty well as good as Boulogne for shopping. Apart from a host of speciality shops in the centre, there are two hypermarkets – Mammouth and Continent – each about two miles from the centre. The town itself isn't as nice as Boulogne, though.

Adam's top five French tips

1) BUSES The windows on French buses don't open, so you're gonna sweat. If it's a really hot day you'd be advised to sit on the side of the bus where the sun isn't (er, so the sun's on the bus then is it? – ed), even if it means changing sides throughout the journey. You'll look a prat but at least you won't die of heat exhaustion.

2) MAGAZINES Pop into a French newsie and flick through Cent Pour Cent, the Gallic CPC magazine. There are summaries of game reviews in pigeon English, though the mag's a bit expensive (25F – about £2.50 – and no covertape). Even more expensive is CPC Micro (26F) which consists of nothing but mega-long type-ins.

3) ZEBRA CROSSINGS A few French zebra crossings have traffic lights attached, but the majority don't. Unlike British crossings, the cars don't stop. The lines on the road are only there to let drivers know where they're more likely to run into a pedestrian.

4) THE BEACH Boulogne has a pretty decent beach. It's close to the ferry port, very sandy and there's a few crap ice cream stands on the way. Don't drown though, unless you have holiday insurance.

5) SUPERMARKETS Ange recommends Mono Prix. Beware: French baked beans are horrible. Oh, and don't buy any french sticks. There's no point – you can get them in Tesco.

Things to do... Things to

cass disk

Offshore Warrior

Overlander

Paperboy

Pro Golf

Para Academy

Pro Boxing Simulator

Pro Powerboat Sim

Postman Pat

Punch & Judy

Scooby Doo

Skatin' USA

Soccer Boss

Rally Simulator

SAS Combat Sim

Soccer Manager

Spaghetti Western

Spellfire the Sorceror cass disk

Steve Davis Snooker cass disk

Treasure Island Dizzy cass disk

Space Harrier

Space Racer

Spooky Castle

Spy vs Spy

Spy vs Spy 2

Spy vs Spy 3

Super Trux

Superkid in Space

Turrican disk only

Who Dares Wins 2

World Soccer

Superkid

Superski

Turbo Cup

Titan

X-Out

Operation Hormuz

cass disk

cass

cass

cass

cass

cass

cass

cass

disk



FERRY NICE TOO...

Although cross-channel ferries belt along at a fair old lick, you've still got around an hour and a half to kill while the boat crosses the channel. Fortunately, ferries are equipped with all the facilities of a small town. There's a restaurant, bar, shops and video lounge. In good weather, though, you'll probably want to be out on deck sniffing the sea breeze and trying to see France already. Things get a bit rowdy below decks sometimes, since boozers only after the duty free shop (they don't get off the boat at all) congregate in the bar swilling beer and puffing on fags.



HELLO BOULOGNE!

Huh... so this is France, is it? Boulogne looks a bit of a dump, frankly, as your ship draws in. The view on the left is OK, but to the right it looks like you've got the coalyard of Europe. On disembarking, you zoom through passport control and customs, along an incredibly tortuous enclosed corridor on stilts (you'll know what we mean when you see it) and emerge in the middle of Boulogne... nearly. First you've got to cross a road that makes Brands Hatch look like a smart place to test a zimmer frame. The zebra crossings are marginally safer places to cross.



Ninja Commando

WHERE ARE YOU?

Lost, eh? Didn't bring your map of Boulogne, eh? Well don't worry about it. There's a tourist information office on the right just as you reach the main road from the ferry terminal. On the right of the desk, in a little perspex dispenser (unless they've moved it) is a leaflet telling you how to get to the Auchan hypermarket by bus. Any other touristy information (historical sites etc) can be got from the wonderfully obliging peeps behind the desk. Boulogne is a pretty compact town, so as long as you've got a few hours to spare you can cover most of it on foot.



M GETTING TO AUCHAN

You get to the bus that takes you to the Auchan hypermarket (that's by far the best place for picking up CPC goodies) by turning right at this busy main road and walking along it for about a quarter (maybe half) of a mile. The bus ('Cars Sergent') leaves from a stop just outside a small supermarket – it's all indicated in the leaflet. The buses are old, hot and slow, but the trip only takes about 10 minutes. It costs 9F per person (return), which is cheap enough, but the buses aren't too frequent (about every 90 minutes). There are only three stops on the route, so you won't get lost!



SHOPPING IN AUCHAN The Auchan hypermarket is actually in a

much larger site containing lots of other stores. Over here we'd call it a trading estate. In France it's probably an estate commerciale, which makes it sound much more glamorous. Once you find your way into the Auchan store (it shares the building of that name with loads of other tiddly shops), the computer section is (with the checkout tills at your back) in the left-hand corner. They sell hardware, software, blank disks and all manner of computerish widgets. The rest of your folks will find plenty to look at elsewhere in the store.



WATCH THE TIME! Well, it's been a long day. You've

bought loads of stuff, you've drunk loads of expressos, you're stuffed full of croissants and funny, sticky bun-type things you've bought from patisseries... now it's time to amble back to the ferry. Just one problem. The departure time quoted in your brochure is local time, while your trusty Sekonda is still set to UK time – which is an hour behind! If you don't want to miss your return ferry, either put your watch forward one hour or remember that it's one hour later than you think! Otherwise, you'll miss your ferry. (Like we did.)

BrunWord

464 ROM Module £59

This is a low cost version of our fabulous ROM Module, specially produced for use on CPC computers with no disc drive. To get down to this price, we've removed the database and the BrunWord Elite fonts but all the word processing features and the fantastic As You Type spelling checker, are there ready for instant use.

Plug on the module, type IBW and half a second later the programme is loaded and ready to use. Then the really exciting bit! The tutor file is stored in the ROM, simply type G TUTOR1 (ENTER) and 2 seconds later it's in the BrunWord editor ready for you to experiment with. The tutor takes a complete novice straight into word processing and even includes some spelling errors to find and correct. And all this without once using the cassette.

The next step is to type in the example letter as instructed in the manual. Do it carefully as the computer will beep at every spelling error..... Save it as a memory file, make some changes, change your mind and call it back in 2 seconds! You only use the cassette when you want to make a permanent record. If you are practising your typing or your spelling, you may go for days without using the cassette.....

The 464 BrunWord ROM Module is brilliant for learning to type and learning to spell, even if you don't have a printer. But that's just the beginning. you could go on to write your own full length novel. BrunWord ROM is a must for all serious 464 owners, (ROM module for 464 with disc drive add £15. BOM module for 464 Plus add £10).

Elite ROM Module £125

This is the ultimate addition to a 6128 computer. Word processor, spelling checker, 33,000 word dictionary, relational database and 10 superb 'type setting' fonts programmed into one high capacity ROM. Massive memory, small size and includes our latest innovations, the As You Type spelling checker and our System 2 simplified printer control.

The Elite ROM Module is supplied with an 8 bit Printer Status Port which enables the 'type setting' fonts to be used. It has many extra features including page layout commands and high quality high speed screen dump routines for 9 pin and 24 pin printers.

System 2 Printing

Our System 2 control, in the BrunWord Elite ROM module, makes micro justified printing very easy to use. Request auto-formatting and System 2 will take your screen layout, adjust it for the font that you are using and even allow for different printer margins. Roughly on the right, then it will be on the right. Roughly in the middle, then it will be in the middle. For straightforward pages, no layout instructions are required even when using proportional fonts. It's all controlled from simple instructions in the print menu, which are, of course, saved with the file.

6128 ROM Module £79

BrunWord 6128, BrunSpell, 33,000 word dictionary and Info-Script (powerful relational database) have all been programmed into one huge ROM along with our very latest innovation, the 'As You Type' spelling checker. The ROM is wired into a special printed circuit board and the whole unit coated in protective resin. It is very compact and plugs directly onto the expansion socket of the CPC6128 or 6128 Plus.

Plug on the module, switch on the computer. type IBW and the whole system is immediately ready for use. Type into the word processor, it the computer beeps, press (f3) and ask for help. transfer the correct spelling and resume typing. Use the database to print labels, search for an address, transfer it to the word processor and print it out, all without a single disc operation to slow you down, (except to load and save your

Very Serious

The Elite and 6128 ROM Modules are perfect for an unexpanded CPC6128 or 6128 Plus. You need no other add ons. However, anyone who has two disc drives knows the frustration of inserting a disc, asking to load a file and being told that the other drive has no disc in it. You simply forgot to tell the computer to change drives. That's now a thing of the past. The BrunWord ROM always assumes that the drive with the disc in it is the one you want to use. It's so simple, yet saves such a lot of frustration! If you have a 3.5 inch second disc drive then you can have KDS ROMDOS included in your ROM for £6 extra.

Any Printer?

All ROM versions work with any Epson compatible printer. All 24 pin printers can make full use of System 2. Older designs of 9 pin printers (Amstrad DMP2160 etc) are limited to whole space justification but modern 9 pin printers (Star LC10 etc) can use micro justification, even with proportional printing.

Epson 24 Pin

Every dot of ink on this page. including the drawing, the large 'BrunWord', our name & address, credit card symbols and Teddy. was printed in one operation using the BrunWord Elite ROM module and an Epson LQ1070 printer (wide carriage LQ570).

ROM Box?

Remember... Our ROM Modules plug directly onto the computer. No ROM box is needed.

BrunWord 6128 £30

BrunWord 6128 on disc is not quite so convenient as the ROM version and doesn't have our very latest additions, but at £30 it represents excellent value. Supplied complete with BrunSpell and 30,000 word dictionary, type RUN"BRUNWORD" to load both programmes and the dictionary. A very fast screen response, extensive editor commands and the 4000 words per minute spelling checker, make it a joy to use. On the disc is a tutor file which takes even a complete beginner straight into word processing and demonstrates the powerful editing and formatting features of BrunWord. The 40 page manual includes step by step instructions to produce and print a simple

Font Editor £20

The Font Editor enables the BrunWord Elite fonts to be edited and saved to disc. It can handle fonts up to 32 dots high, so very high quality fonts can be created and used in the 'Headline' mode, on most 9 pin and all 24 pin printers. 'Headline' is a standard feature of the BrunWord Elite ROM module. Smaller fonts 24 dots high or less can be downloaded to 24 pin printers or used in the 'Headline' mode. The Font Editor also has size change routines and the ability to import hand drawn characters (using a Dart Scanner).



'The Gun Girl'

She knows how to cure bad spelling! (Drawing by Chris Rothero).

Send cheque/PO/Access, Visa, Connect number to:-**Brunning Software**

138 The Street, Little Clacton, Essex, CO16 9LS. Telephone (0255) 862308



BrunWord 6128 with BrunSpell (on 3in disc). . £30.00 CPC464 ROM Module with BrunSpell......£59.00 464Plus ROM Module with BrunSpell. £69.00 464 ROM Module with connector for disc drive. £74.00 6128 ROM Module, BrunSpell & Info-Script. . . £79.00 Elite ROM Module, BrunSpell & Info-script. . £125.00 BrunWord Elite Font Editor.....£20.00 *** You must state 'Ordinary' or 'Plus' ***

All prices are inclusive for UK. Overseas orders sent insured air mail - Europe add £2.50 : Rest add £7.50

NEWS... NEWS... NEWS... NEWS... NEWS... NEWS...

Software pirates under attack!

Publishers Association) has recruited an expert whose job is to nail softare pirates. The new official will work with FAST (Federation Against Software Theft), which already has an impresrecord of successful prosecutions of large corporations.

'Corporate piracy', which is where large companies use lots of unpaid-for copies of word processing or accounts programs, costs serious publishers untold millions per year, mature decline in the Amstrad market. This has been the first target for FAST. However, the new recruit to the team will be targeting the leisure

ELSPA (European Leisure Software pirates now face fines, confiscation of equipment, even prison sentences.

> The Amiga is the machine most hit by organised software piracy. The industry estimates that games sell to no more than ten per cent of potential users as a result. As for the Amstrad, Roger Bennet, spokesman for ELSPA, explains that there are now comparatively few products on the market that could be targets for pirates. We asked if he though piracy had led to a pre-He described it as a "substantial contributory cause."

The piracy debate has been going industry specifically, and software on for years. Pirates claim that they software...

are forced to copy software illegally because of the high prices charged by software houses. Software houses claim these high prices are necessary because of the level of piracy they face! Piracy will inevitably push up software prices. Even worse, it may force some publishers out of the market altogether. Pirates may enjoy short-term gain at the expense of the publishers, but in the long-term there may be nothing left to pirate...

The bottom line, following this new ELSPA/FAST initiative, is: pirates watch out! And remember, it is also illegal to knowingly purchase pirated



 Bob Hay's FAST organisation now has a full-time member on the trail of games pirates...

Staff changes at Amstrad Action :

It's all change on the Art front at AA towers this month, as Art Ed Angela Neal leaves us for a new life in Brighton. "What's Brighton got that we haven't?" we asked her. "Sun, sea and candyfloss (only 25p)," she told us. (You can get that in Weston-super-Mare – Ed. Except the sun and the sea, that is. And the 25p candyfloss.)

But she's not the only one to go. Much-loved Art Assistant Maryanne Booth is also leaving. She's not going to Brighton, though. Instead, she's going to be working just round the corner on Sega Power magazine. You know, that thing about those flash-in-the-pan console jobbies. They'll never last.

"So why are you leaving?" we asked her. "Because I got sick of Adam and Rod winding me up and teasing me and making my life a misery. And Jane [our publisher] thought I deserved better."

Well Maryanne might like to know that we're forwarding extensive notes on Maryanne-winding-up to all the bods on Sega Power, together with a list of all the new things we didn't have a chance to try out.

So who's going to lay out all our pages then? Well, it's going to be none other than our pal Lam Tang. He used to work with ex AA Art Ed Ollie Alderton on Commodore Format (spit) before a brief stint on Amiga Format magazine (spit). But now he's back with the 8-bits! (Spi... oh, hurrah!)



Rod Lawton shows new Art Ed Lam Tang the ropes (er, the joystick cord, actually). "Give 'em and inch and they take a mile." Rod said later. Lam is now out of intensive care and will be back at work as soon as his head has been stitched back on the right way

New low-cost printers

Mannesmann Tally has weighed in with a new 9-pin printer for cost-conscious buyers. With an RRP (though you should be able to get it cheaper) of £179, the MT81 boasts an "unbelievable price/performance ratio". Certainly, its speed in 'correspondence' mode is pretty startling, at 130cps. NLO quality is produced at a more sedate 26cps.

To find out more about the MT81, call Mannesmann Tally on 0734 788711.

All Formats fairs

These All-Formats Computer Fairs are breeding like rabbits. In September there are no fewer than three separate events:

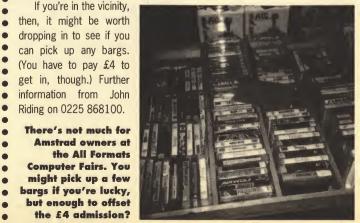
 Saturday 5th, National Motorcycle Museum, Birmingham Saturday 12th, Sandown Racecourse, London

Saturday 19th, Donington Racecourse, Midlands

We sent roving reporter Adam Peters to an earlier fair to size up the Amstrad interest. "Not much, actually. There was a 6128 Plus going for £200, plus a few old tape games at 50p or a quid, some really cheap joysticks and 3inch disks at a quid apiece."

If you're in the vicinity, then, it might be worth dropping in to see if you can pick up any bargs. (You have to pay £4 to

> There's not much for Amstrad owners at the All Formats Computer Fairs. You might pick up a few bargs if you're lucky, but enough to offset the £4 admission?



NEWS... NEWS... NEWS... NEWS... NEWS... NEWS...

benefit from the help of some of our 37.000-odd readers? Or maybe you're

desperately in need of a piece of kit

On the other hand you could have

that you simply can't find in the shops?

expert knowledge that you're prepared

('cos that's the kind of guy/gal you are).

to share with whoever phones you up

If so, drop a line to Technical

Helpline, preferably on a postcard or

sealed-down envelope. Don't forget to

we're unable to print addresses. Send

your entry to: Technical Helpline.

include your phone number - sorry.

technical

Life, eh? It's not easy. Nothing ever goes right. Full of upset and trauma. Little Hammy Hamster's passed away, the Poll Tax people have finally caught up and to cap it all, you can't get your plasted printer to print in italics.

Wait! Step away from that window ledge. You need help and you've come to the right place. This is the section is the Betty Ford Clinic for those with a 'technical problem'. (Face up to it - that's the first step.) Prof ADAM WARING will soon put you right and you'll walk away with a new air of self respect.

Whatever your dilemma, send it in to: Technical Forum, Amstrad Action, Future Publishing, 30 Monmouth Street, Bath, Avon BA1 2BW

THINKING BIG



Lown a CPC464 computer and I am thinking of upgrading the memory. At the

moment I use it mostly for games but I would like to use it for technical

- 1. Could you please tell me what a RAM expansion does and how much memory it is necessary to have? I would also like to know how much it would cost.
- 2. Could you also tell me where to get a modem and how much that would cost?

Neil Gigg Bigton, Shetland



0

orv. The 464 has 64K

of memory built in, which is fine for many things but some of the more serious applications, such as desktop publishing and art packages, require

64K RAM packs are widely available and double your computer's memory to 128K, making it compatible with most 6128 programs. You can go even further and buy a 256K RAM pack, but this is only really for the most serious of users and no commercially-available programs use it to its full capacity.

If you're stuck for a supplier, then RAM packs in both memory configurations are available from Datel Electronics, costing £49.99 for the 64K expansion and £99.95 for the 256K expansion. Contact Datel

Electronics, Govan Road, Fenton Industrial Estate Stoke-on-Trent ST4 2RS # 0782 744707

2. The problem with modems is that they can't be plugged directly into the Amstrad For that you need to buy an RS232 interface and these haven't been available for a long time.

However, all is not lost. Siren Software is producing one and is just putting it through the final stages of testing and it should be available shortly. We'll hopefully be giving it a full review in next month's Technical

The interface will cost £59.99 when it is finally available and Siren ishoping to produce a full interface and modem package around the £175 mark. Get in touch with Siren Software. Wilton House, Bury Road, Radcliffe, Manchester M26 9UR ☎ 061-724

GET SERIOUS



I am just starting to turn my CPC464 into a more serious machine and I would like you to answer these questions for me:

1. Could you tell me what Arnor's BCPL is and can you tell me a little

2. Are there any art programs avail-

3. Why can Power Page be loaded only from disk?

Johnathan McVicar Prudhoe Northumberland



Arnor's BCPL program is a version of computer language. just like BASIC. It's

fairly fast, and is quite easy to use too. but has never really taken off in a big way on any computer. One, I think, for the enthusiast only. If you're interested in programming games or commercial programs, then I think you'd be better off getting an assembler and learning

2. No, there aren't any that I know of,

disk-only program. When programmers write such programs, they often write it for the configuration they have. It's simply too much hassle for them to write it to be compatible with lowerconfiguration systems. A program like Power Page wouldn't really be practical for running from a tape machine as it requires quite a lot of saving and loading. Sorry, but if you want to use it, you'll just have to upgrade!

SCANNING ON HAND I am the proud owner of a 6128 Plus

and recently have



been interested in printing out pictures. Could you please tell

me if there are any hand-held scanners and scanning software available for the Plus and also a rough price range - it doesn't matter is they are dard. black and white. If it is any help, I 2. Could you please explain to me have a Star LC200 colour printer.

Anthony Williams Enfield, Middlesex

I'm not aware of any hand-held scanners designed for the 6128. However, there

your printer, using the printer's mechanism to advance the paper as it scans the image. It's actually designed to fit onto the Amstrad DMP range of printers, though with a bit of clever positioning of Blu-Tac you should get passable results. The Image Scanner costs £79.95 from Dart Electronics. Unit B5. Oulton Works, School Road, Lowestoft, Suffolk NR33 9NA = 0502 Alternatively, a digitiser can be

The Dart scanner is an ingenious

device that clins onto the print head of

used to get real-world images onto your computer. It can be plugged into video camera or video cassette recorder, and can 'freeze' an image and copy it into the computer's memory. The Rombo scanner is available for £69.95 from Rombo Productions, 6 Fairbank Road, Kirkton north, Livingston, Scotland EH54 6TS = 0506

FOLLOW MY LEAD

1. Could you please suggest which



lead would be most suitable to enable me to play tape games on my Amstrad? I have an

Amstrad 6128 which unfortunately only has a disk drive fitted as stan-

why it is that tapes don't work on the

3. What's the difference between BASIC and machine code?

4. Why aren't the Dizzy games available on disk?

S McPherson Barftshire

1. You should be able to pick a lead

especially designed to hold information veniently by computers. Cassette

James Henry from Colchester wants

is a program that uses the com-

speech-like sounds. So yes, you can

actually make your computer talk to

you! There are two ways to get the

computer to do this. The first is

puter monitors a sound through the

tape socket, and 'records' the sound

into its memory. It can then be

replayed through the speaker. This

technique produces quite an accu-

rate reproduction of the sound, but

takes masses of memory for even a

tiny sample of sound. You may have

The next method is using the

heard this in some computer games.

phonetic system. Various letter com-

binations are broken down into

phonemes - these are the sounds

that build up to form a language.

have be spelt in all manner of odd

ways. They have to be spelt phonet-

the word car is made from a 'c' and

puter to speak the word 'cahh'. (Or

something like that.) This method

takes up far less memory, but tends

to take a lot of fiddling to get

things right, and even then resem-

bles a dalek speaking through a

"What does a speech syn-

thesiser do and is it

NOW YOU'RE TALKING

his computer to talk to him.

available on the 464 tape?"

alignment with a watchmaker's screw- machine understands directly driver. It's rarely a faulty tape that 4. Codemasters, which produces the causes loading problems

is that loading from tape is a frustrat- preted language. The computer has to It's simply uneconomical to produce ing experience. Disk drives are translate each instruction into machine budget games on disk which are far code before it can execute it, which accurately to be read quickly and con- makes it relatively slow to run a program. Machine code is many times faster, often by factors of 100-fold. tening and are not ideal for computer. However, it far more complicated to use, however, they're very cheap, and learn when compared to BASIC, which so computer manufacturers in the '80s was originally designed as a beginners' (including Amstrad) often opted for this language and so isn't half as compli-

o you! A speech synthesiser mentry problems, then don't be shy, drop me a line

and I'll do my best to help!

As for a program that does this.

using sampled speech. The com- girl! I'd love to help but I'm absolutely useless at

barrel of treacle.

IT DOESN'T CONNECT

from Kilmaurs, way up there in

that fits between your slower, less-reliable medium. If you cated to pick up. For many uses, 6128 and a cassette have trouble loading from tape then try BASIC is perfectly adequate, but if

> Dizzy games, specialises in budget 3. BASIC is what's known as an inter- software, which retails for low prices.

SCRATCH PAD



Hello, and welcome once again to the only place that

newies are safe. If you're stuck on even the most ele-

nical, though. I can only cope with the simplest of

Don't ask me about machine code or anything tech-

problems. One other thing, a lot of you have been ask-

ing me for help with games. You're asking the wrong

games. Write to: Ask Alex, Amstrad Action, Beauford

there used to be one marketed by uses the standard Centronics printer

Superior Software called Speech! I interface. Second thing is that is uses

don't think it's available any more, a non-standard lead! This is because

though. You may want to try getting the edge connecter is used in place

hold of it through the Techie of the more common 'D'-shaped

Printers are forever causing prob- the proper connector – they can use

Scottish Ayrshire. He (or she - the cial lead called an Amstrad PL-1. If

necting other together that's the then many of Amstrad Action's mail

"What type of lead do I lead or equivalent and you won"t

Star LC-20 printer to my CPC464, that the lead has pin 14 'cut'. Your

and where can I get hold of one?" dealer should know what you mean.

need to connect my new go far wrong. Make sure, though,

lems for us newies. Take F McLean a standard lead!)

Court. 30 Monmouth Street. Bath. Avon BA1 2BW

I have a few questions to ask concerning my Amstrad 6128

1. The plate that has

A The first thing you need to

more commonly have. (Plus owners

note that their machine does have

You'll need to get hold of a spe-

order suppliers may be able to help

you. Scan the ads for a 'PL-1 printer

know is that the Amstrad

Wanted: TV modulator for CPC464 Darren, 0693 878607

Amstrad Action, Future

Publishing, 30 Monmouth

Street, Bath, Avon BA1 2BW

Wanted: Master CP/M system disk (6128) - will pay. Anyone know the full Computer Club, Swindon? Paul. 051-928 3207

money for nothing.

Needed deperately! Firmware guide (SOFT 968) and BASIC manual (SOFT 967). Will pay good price or swap for games, advice (limited!), tips etc. Also wanted, other CPC manuals and books. Rayner, 021-422 5894 after 5.30pm

Does anybody have a copy of AA33 to sell or just a photocopy of the joystick splitter project?

David 081-876 9302 after 6pm

Wanted: anyone who has a Mini Office II disk and would kindly contact me. Mine has crashed.

Wanted: 64K memory expnson for 464 Plus, £15-£20.

Lneed a CPC6128 TV modulator, Will swap for Kick Off Collection, other games or green screen monitor. Wayne 071 700 0715

Wanted: Disk drive for 464 Plus, twoway port expansion, Wave Widget, 64K RAM expansion. Will exchange for Atari VCS Games System plus games and two joysticks.

Sue, 0501 41803

address/phone no of the Amstrad Home

SOFT 968 wanted to borrow, buy etc. I'll pay just to lend it for a week. So please, someone, this is an opertunity to make Paul, 0446 736529 after 6pm

Barry 0752 661614

Robert, 0989 66177 after school hours

ور الد و دا

Send your cleverest ideas to: Top Tips. Amstrad Action, Future Publishing, 30 Monmouth Street, Bath, Avon BA1 2BW

BREAK IN

W

70

I've found a simple way of protecting your programs from prying eyes. Put these lines at the start of the program:

10 ON REFOR CONT 20 IF pass\$="whatever your password is" THEN 40 30 CALL 0

The program begins at line 40. Save the program under the protection using:

SAVE "filename",P

When you to load the program normally, by using RUN", the computer will reset. To load the program you need to type:

pass\$="wour password" CHAIN "filename"

The program will load and run itself as ormal. The routine isn't totally tamperproof, but should do for most situations when this sort of thing is necessary.

Knutsford, Cheshire

SHADES OF GREY

I have discovered a method of having a permanently shaded background on the 464. It works best in mode 2. Type:

MODE 2: POKE &B290.&AA:CLS

If you want to remove the background colour simply type PAPER 0:CLS

There is also an effect to get multicoloured text. This is most effective in modes 1 or 2. Type:

POKE &B28F, any number between O and 255

To remove this type PEN 1

And finally some ways of getting round 6128 commands if you have a 464:

6128 command CLEAR INPUT FRAME GRAPHICS PEN

464 substitute CALL &BB03 CALL &BD19 PLOT -10.-10.pen

Mark Goddard Tadley, Hants

Chart on top of the built-in disk drive has become severely scratched and is now unreadable, which is extremely annoying and these scratches also mess up the look of the computer. Is it possible to get a replacement plate or do I have to buy a new case for the computer?

2. Is it possible to make back ups of commercial games? If so how do I do it? I have tried using Disckit on the CP/M disk, but it rarely works and it when works, it's only with older games

3. Can you put tape games onto disk? I have heard this is possible with a Multiface but is this true? If so how is it done as I am hoping to buy a Multiface in the near future

4. Lown a Genius Mouse, which I bought from Datel Electronics a few years back. I want to purchase Stop Press, but will my mouse work with it or do I have to buy an AMX mouse?

Sam Grantham Melton Mowbray, Leics



1. Amstrad's official saving the entire contents of memory spares supplier is CPC Ltd (a coincidence. I promise vou)

and if anyone can help you, they can. Contact them on ☎ 0722 555034.

Commercial games are notoriously difficult to copy because publishers are worried about about piracy - if the games are too easy to copy then people might be tempted to simply take a copy from a friend rather than buy their own copy of certain games. As time went by, protection systems have become more and more complex, and even the most primitive disk protection systems are able to prevent tools such

3. A Multiface does indeed allow you to transfer tape games to disk - as well as a variety of other useful functions. It works by freezing the operations of the computer and then taking over the running of the machine, providing functions such as

as Disckit from conving the programs

(i.e. the game you've just loaded) to disk. Another option allows you to resume the game at whatever point you froze it at, making it great for cheats - get past the end-of-level baddie and you can save your progress; you'll never have to fight

4. Yes, you'll be glad to hear that no more expenditure is required. Stop Press will work with the Genius mouse without any problems

SPLITTING UP



I recently bought an Atari-style joystick splitter from a computer store. I bought

Cheetah 125+ joystick and an Amstrad JY2 joystick before loading International Karate Plus which uses two joysticks on two-player games. I was dismayed to find that both joysticks controlled the same player. I tried the splitter and joysticks on three or four different games but got CHIP SHOP the same response. Is it the splitter that is faulty or do I need to buy a different joystick?

P Smithson **Emley, West Yorkshire**

> No, you don't need any different joysticks and the splitter's not faulty... exactly.

You've actually bought the wrong type. The one you've bought is actually designed for the Atari ST, and not the CPC.

It is designed to duplicate a single joystick port so that the mouse and a joystick can be plugged in at the same time

Try taking the splitter back to the shop explaining that you need one for the CPC

If they can't help you out then you might be better off phoning round some of the mail order suppliers that you see advertising in Amstrad Action



Could I unplug my 780A chip and replace it with the 6Mhz 780B without

any other modifications? I have a

Colin Byrne Duleek, Eire



Well you could, but it wouldn't do vou much good. Although the Z80B is capable of

running faster than a Z80A, it won't mean an increase in speed - not without completely reworking all the timing circuitry inside the CPC. And that is so big a job so to make it not

GET COLOURFUL



I have had a black and white TV for a couple of years now and I was thinking of

getting a colour TV. But when I read

about the Amstrad TV tuner in AA, I decided that I'd pay £20, rather than

- £200. I have three questions: 1. I've heard that these tuners dam-
- age the monitor Is this true?
- 2. Where do I get one?
- 3. Is there any way I could make a home made one?

Daniel Johnson London



Plugging a TV tuner into your moni-

spread about because plugging a computer into a telly can produce an effect that's known as 'burn-in' Unless you have a tendency to watch the test card all day long then you have no worries

- 2. Many of AA's advertisers carry them. Try WAVE = 0229 870000.
- 3. Even if you possessed the skill and technical knowledge. I doubt that you could build one for the price you can nick them up for

It's all right having this capability, but you need to tine does, then a more in-depth section describing what each routine does in detail. This friendly approach makes scanning the address for a desired routine easy. It also has the floating point maths functions listed - these were

> set, BASIC tokens and port addresses. The information is clearly laid out throughout, and generally it's quick and

of what's connected to the various addresses but giving no explanation about what any of them actually mean. It also missed out any information on what the various chins inside the CPC and Pluses do. Areas that the Amstrad guide covered in detail.

ring-bound and has a fairly flimsy paper cover - cheaply printed but the binding is ideal for a reference book of this sort as the pages stay flat when you open them. Besides, it's not the quality of the paper you're paying for but the quality of the information - and that's high.

It won't teach you how to program, but it will supply

A long-awaited and invaluable book Clear, informative and friendly

When Amstrad designed the CPC range of comtions without having to re-invent the wheel by writing their steps in machine code. Using the firmware it's a case of

THE FIRMWARE GUIDE

by Bob Taylor and Thomas Defoe

The essential programmers' guide includes:

Produced by the original authors of Print-Out

HERTS CM23 2PJ

Firmware Guide

puters they made it easy for programmers to use the internal ROM routines to quickly and easily achieve funcown specialised routines. A table

review The

of addresses is used to access the various ROM routines. A simple call to one of these automatically addresses switches in the appropriate ROM, executes the function and then returns control to the user. These addresses are known as the firmware jump blocks. They're held in the computer's RAM and are upwardly-compatible throughout the range - the actual addresses have changed in different incarnations of the machine, but the jump blocks will always point to the right address.

For instance, printing a character on the screen - a straightforward procedure from BASIC - is an extremely complicated pro-

culated and character tables accessed - not the sort of thing the beginner is ready to face in their first faltering simply loading the accumulator with the character you

£7.95 ● BOB TAYLOR AND THOMAS DEFOE,

8 MAZE GREEN ROAD, BISHOP'S STORTFORD,

want to print and calling the firmware address.

By using this system, the ROMs can be safely hidden away, only needing to he called up when the computer requires them, freeing much of the memory as RAM which can be used to write larger, more comprehensive programs. Because the firmware addresses are in RAM, they can also be patched to create custombuilt routines. The prining routine can be modified to create multi-coloured chatracters, for example.

■ The Print Out Firmware Guide is an invaluable tool for programmers and assorted wireheads everywhere. AA recommended.

know about it. You need information about what routines are accessed by what addresses and what those routines actually do. This was provided, for some time, by the publication of Soft968, or, as it became known to its friends. The Firmware Manual. This reference guide became the programmers' bible. It may have been a bit unfriendly in places and skipped over information that certainly wouldn't have done you any harm knowing, but if you were getting into programming the first thing you did was get hold of a copy of this invaluable book.

Then, over three years ago, availability of this manual dried up. Amstrad refused to reprint it, despite a large demand by programming enthusiasts. Amstrad Action even wrote to Amstrad, asking for the rights to reprint the manual as we saw it as an invaluable guide for any serious-minded reader. The answer remained the same: The Firmware Manual was out of print and that's the way it was going to stay. This step must have hindered more would-be programmers getting to grips with their computer than anything else. Existing Firmware Manuals became worth their weight in gold.

But now there's a chink of light, A brand new book, written by a couple of Amstrad enthusiasts, intends to fill the gap left by The Firmware Manual. It doesn't have any pretensions about what it's about: it's called The Firmware Guide and provides most of the information that Amstrad's absent book was relied on for, and a little more that it didn't

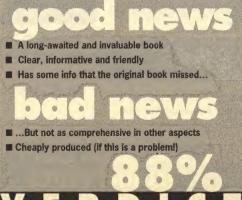
One of the areas that it covers that the original book didn't is a comprehensive memory map, containing a full list of system variables. This is the area of RAM that the computer uses to keep track of things, mainly compiled from the authors' experimentation. It doesn't claim to be 100% accurate as there is no 'official' source for this information, but provides some very useful information

This is followed by sections on the firmware jump blocks themselves. First there's an 'at a glance' listing of all the addresses with a brief description of what the rouomitted from Amstrad's publication. There are also sections covering the Z80 instruction

easy to pinpoint what you're looking for. It glosses over the I/O ports, providing a simple list

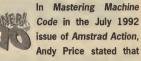
The book is A4 in size, and runs to 80 pages, It's

the programmer with a mine of information. Gripping bed time reading? No. but as a reference work it's invaluable.



حولت و دا

DEVPAC FROM DISK



Devpac kapt crashing on him. When running Devpac from disk on my 464. I found that when a program got to a certain size, the disk drive became inoperative, responding only with 'Bad Command' when I tried to load or save a file. As the only alterative was to load Devnac from cassette. I set about finding a solution

As it happens, it appears that Devpac overwrites the disk firmware's variables. The program below solves the program by relocating them to a higer

1 : DEUPAC DISK SETUP ROUTINE 2 : (C) Gareth Watts June 1992

3;

4 *1.-

10 ORG

20 ENT 30 LD C.7

DE.#8000

HL.#B100 BRCCE

Type that into Devpac and save it onto your Devpac disk using P 1,60, filename.

Now every time you want to use Devpac, load this program first. Assemble it, Run it and Delete it using D 1,60. Devpac will be set up and ready for your own programs. The only point to note is that you cannot use BASIC after running the program. (The computer will lock up if you try it.)

You may also be interested to know that the 15 fonts supplied on the February covertage can be used on the Powernage program given on last month's tape. This program will transfer them from cassette to disk with a filename ready to use with Powerpage:

10 SYMBOL AFTER 32:h=HIMEM+1 20 IDTSC.OUT: ITAPE. TN 30 FOR x=1 TO 15

40 READ saus 50 LOAD "!"+sau\$+" .FNT" ,h

60 SAVE sav\$+".CHR",b,h,&300 70 NEXT

80 CALL ARRAY

90 DATA blocked hold? boxed. digital handwrit malone modern. network7.ocean.old.shadow.

thinjoin, total2, twriter, wide

Gareth Watts Norwich

All-change in **Technical Forum**

It's a sad day at Amstrad Action. Adam Waring, programmer extraordinaire (remember Lost Caves?) and the magazine's resident technical guru, is leaving! Where's he going? He's going round the world, so he tells us, 'to find himself'. When he's found himself, he's coming back to Future Publishing - but that won't be for about a year. Well, all we can say is, good luck! But what's going to happen to Technical Forum...?

Richard Fairhurst. He's the boss of Robot PD, the company that's provided AA with such spanky covertape progs as Croco Magneto and

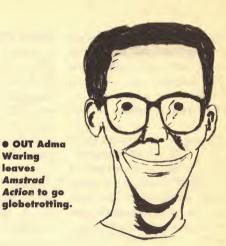
Richard is also one mean coder, so we reckon shoes (poo...!), not least because there's nothing Rich doesn't know about our little plastic pal (er, the

But that doesn't mean that Adam won't be sorely missed. After all, from now on there won't be message for all the readers on this rather sad day? that confusion of having two people called 'Adam' in

Don't worry! Technical Forum is going to carry on as and winning ways... like the way he was always first big and bold as ever. Taking over from (Uncle) out of the taxi but last at the bar whenever we went Adam Waring from next month is none other than for a drink. And the way he'd never stop talking about Hull, even when everyone had gone home and there was only Mrs Moggs the cleaner there and she never had her deaf-aid turned on. (Well, would

But never fear. Techie Forum is going to carry he's the ideal bloke to step straight into Adam's on with its same blend of technical questions and answers, product reviews and useful tips. Plus of course the ever charming Alex van Damm and her section for beginners.

As for Adam, we asked him if he had one final





• IN Richard Fairhurst takes over the Techie Forum section in AA.

EPROM PROGRAMMER £30.00

Put your favourite Basic and machine code programs onto Rom with our powerful Eprom Programmer. Programs 8k and 16k, 12½, and 21 volt eproms. Menu driven disk software is included for programming single bytes, blocks or full eproms.Features include: Rom to Rom copying, editing, verification, ejector rom socket, etc., plus a ready to blow PD 'games' rom program

Blank 16k eproms.....£3.50

32k RAMROM £13.95

32k of Ram which can be loaded with 1 or 2 Rom programs of up to 16k each. When loaded, the RAMROM behaves just like any other Rom, Ideal for writing, editing and testing Rom programs wthout the need for blowing and erasing. Loaded programs can occupy separate Rom slots or can both be on the same slot, switching

ABBA SWITCH £12.95

Fits easily to the CPC 6128 or 664 to swap the internal 'A' and the external 'B' drives around so that the external drive becomes the 'A' drive and vice versa. Works with any external disk drive.

3½" DUAL-MODE B DRIVE

Stores up to 800k per disk when used with MS800, Ramdos, Romdos or Rodos. Supplied with free MS800

Waring

Amstrad

Action to go

leaves

Mode 1: Works as a Standard B Drive giving 178k free on each side of the disk Mode 2: Works as a Megadrive giving up to 800k storage per disk Does not need a SIDE SWITCH but has one fitted to allow Mode 1 useage. This is the

3½" drive£79.95 3½" disks10 for £7.50 Please add £3 p&p to 32" drive

BONZO UTILITIES

SUPER MEDDLER with HACKPACK: transfers most games from tape to disk, producing 'stand alone' transfers. Supplied on disk with a large database of verified

Blitz with Doodah: transfers all Speedlock protected tape programs onto disk. Includes 4 adventure games - free!

MEDDLER£13.95 BLITZ£13.95

AVATAR, 39 CROSSFELL ROAD, LEVERSTOCK GREEN, HEMEL HEMPSTEAD HP3 8RG TEL 0442 251705

Maior Credit Cards taken

CPC6128 colour monitor, tapedeck, mouse, joystick, Multiface II, OCP Art, 100+ games, mostly disk, 25 blank disks. All fully boxed. Worth £1200+ sell for £475 o.n.o. Phone (0329) 41422 after

CPC6128 colour monitor, serial 8056 printer, Multiface II, manuals, joystick, cassette lead, dust covers, Mini Office II, Pyradeu, other software, 150+ games, books, 120 magazines (AA16-80) £250. (0793) 531304.

GREEN SCREEN MONITOR for Amstrad 464/6128.ldeal for word processing, database etc. Offers (0243) 543545 (West Sussex).

colour DMP2160 printer, Multiface II, joystick, dust covers, manuals, leads, over £200 of software, includes Mini Office II, Planit, Elite, Gunship, E-Motion, blank disks, AVACU mags/tapes. Bargain £350. Phone Tim (0489) 572035.

FOR SALE: MP2 Modulator £25 o.n.o. Includes postage. Includes Bards Tale, Laser Squad, North and South. Phone David Hayes 041-881 7268.

CPC464, colour monitor, disk drive oads of tape and disk games and application software including AMX art + mouse and other com-Alive, Will sell for £200, (0932)

CPC6128 colour monitor, joystick, manual, virtually unused. £160 o.n.o. Also CPC 464. MP1 Modulator, no monitor games. £50. Phone Horley (0293) 784577 evenings or weekends.

AMSTRAD CPC464 colour monitor disk drive, Speech Synthesizer, 256K Memory Expansion, joystick £200+ worth of software. £400. Vidi Digitiser, £40. StopPress + mouse, £40. Advanced Art Studio, £15. Phone Dave (0608) 658396

AMSTRAD CPC464 computer with colour monitor and 30+ games all original. Worth over £350. Will sell for £170 o.n.o. Tel: Sharon on (0383) 510876 between 4pm and

AMSTRAD 464 colour monitor, TV Tuner, joystick, Lightpen with Interface, approximately 50+ games, dust covers, manuals. Excellent condition. £175 o.n.o. 081-363 8376 (Enfield, Middlesex),

CPC6128 MP-2 3.5" disk drive. tape deck, LC10 colour printer, Colourdump-2, joysticks, Multiface-2, Art Studio, mouse, 3-D construction kit, Brunword, 3" disks, manual, many games, magazines. £350. Telephone (0843) 291597.

GAMES FOR SALE! Tapes in excellent condition from only £1 each including Terminator 2, Simpsons and Turrican. For list send SAE to: William Huddleston, CPC 6128 colour. Multiface 2. joystick, Light Pen, manual, AA agazines, 42-81+. 150+ games including Rainbow, (tane/disk) Dangerous Puzznic, Dizzies', Batmen, Ghost Busters. Head Over Heels, plus many more. Together with cheat book. £300. Telephone 081-642 0096.

MEGA CHEAP GAMES. Private collection for sale (over 100 titles) prices from 50p! Full list (SAE please) from Michael Plimmer, Wayside, Howleigh Blagdon Hill. Taunton. Somerset

GAMES FOR SALE! Tapes, Rainbow Island, Shadow Warriors, Robo Cop etc. thirty games. Altogether worth £240 sell for £150. A bargain! Please ring Richard on Frome (0373) 66557.

6128 PLUS colour monitor, paddle, £200 of software, including Prince Of Persia, Pang, 3D Construction Kit, all master games, loads of excellent condition. Worth £600. Sell for £270 o.n.o. Tel (061) 7278717 (Manchester) after 6pm.

CPC6128. Collection of 30 disks including Protext, Pendown Word Processors, Driller, Elite, Head over Heels, Arkanoid, Matchday II, also joystick Splitter, Cheat mode 85-86 books. £50. Tel: 081-440 9430.

76 AMSTRAD ACTIONS plus all cover tapes. Also 7 other Amstrad magazines plus 3 Amstrad books. All excellent condition, £100 the lot. No offers, buyer collects. Barnsley (0226) 284319.

CPM644 colour monitor, £70. 64K Memory Expansion, Multiface 2, £35. DD1-1 disk drive, £100. 2 x CPC464 computers no tape drives. £15 each, or the lot £200. Write/call after 6.30pm to Peter, 54 Elderton Road, Westcliff,

CPC DOMAIN. The only disk based magazine for serious CPC users .Every issue contains quality programs features reviews letters disk for latest issue or SAE for details. 20 Montague Road. Saltford, Bristol BS18 3LA

CPC464 COLOUR MONITOR, 2 disk drives, 64K RAMpack ROM board 6128 ROM M/F2 ST speakers, games, books, magazines, Laser Basic Brunword G.A.C. A.A's M/O II Micro Design and + and more. £640 o.n.o. Tel: Halifax (0422) 249641

DATAPHONE DESIGNER MODEM plus K.D.S Electronics Serial Interface with Coms pack 5 software. Boxed/manuals/cables. £90 o.n.o.Also CPC cassettes /disks/books for sale. Phone for list. Tel: 071-8223727 (Roger).

AMSTRAD MP-1 TV Modulator for CPC464, perfect condition, unused and in original packaging. £35 o.n.o. Phone Robbins on 081-318-3115 after 6pm. Collect South

CPC464 with colour monitor, joy-stick, 30+ games, AA issues 77-81 £175 o.n.o. Phone 061 624 3084 and ask for Robert, between 4pm

464 PLUS colour monitor plus loads of games plus disk drive,plus joy-stick plus R.R Multiface 2. Will take £300 o.n.o. Phone (0977) 511897.

CPC464 with modulator, 2 joysticks, over £400 worth of games including Sim City, Tolkiens Trilogy, many sports Sims, and more, magazines, GX4000 plus Batman, Sell for £250 Offers considered. Jamie (0482) 564366



This section offers you a really cheap and effective opportunity to speak direct to 35,000 CPC owners – or would-be owners. Users report excellent results.

You can place an ad up of up to 30 words for just £5

So you could use it to sell a printer, launch a user group or advertise a piece of software you've written. One thing you can't advertise is the sale or swap o software. Such ads can be misused by pirates.

Fill in the application form and send it to us tog

We'll place the ad in the next available issue (pub

ORDER FORM	SEND TO AA SMALL ADS, FUTURE PUBLISHING LTD, BEAUFORD COURT, 30 MONMOUTH STREET, BATH, AVON BA1 2A
Please place the fol	owing advertisement in the next available issue of Amstrad Action
ame	I enclose payment of £5.00 by Cheque/ P.O/ Access/ Visa
Address	Credit Card number
	Credit Card expiry date
Telephone	
assification. Tick box:	☐ Wanted ☐ Services ☐ User Groups ☐ Other

	PRICE	
64K Ram Expansion CPC464 only	£39.84	£3.53
3.50" DS/DD Addxtra branded & boxed 10	£5.99	21.18
CPC Centronics printer lead 1.5m		
CPC Centronics printer lead 2.0m		£0.59
CPC to video lead state BNC or phono plug		£0.59
Expansion port adaptor for CPC 464/6128 plus machines (Widgit).	£9.40	£1.18
Advanced Art Studio CPC disk (requires 128K memory)		
Genius mouse + advanced art studio		£3.53
Amstrad, Microscript word processor, CPC464/664/6128 disk		£2.35
40025, 464 upgrade rom		
The Amstrad 12 pack, 12 games on cassette for the CPC464+		
Amstrad Soft 158A - CPC464+ DDI-1 Firmware manual		
Multiface 2, for CPC464/664/6128	£34.42	£3.53
Multiface 2, for CPC464+/6128+		£3.53
Wave Widgit, allows old CPC Peripherals to be connected to plus mo	chine .£7.99	£1.18
Amscase 3" disk filing cabinet, holds 10 3" disks		
AMS30L Disk box, holds 30 3" disks or 15 in cases		
dbase II, CPC6128 relational database (reg CPM Plus)		

		R	IBBOI	NS			
DMP 2000/3000/3160 LC10 LC10 Colour LC2410/LC24200 PCW8256/8512 FN Epson LQ800	PKT 2 2 1 2 2 2 2	PRICE 3.88 4.70 4.23 6.32 5.10	CARR&IN 0.58 0.58 0.59 1.18 1.18	KXP 1090 Citizen 120D PCW9512 MS PCW9512 FN Epson MX100 Epson LX800	PKT 2 2 2 2 2 2 2 2	PRICE 5.50 4.72 5.52	O.58 1.18 0.58

CPC CLEARANCE BOX Amsoft 3" Disks
3" Price List Disk
Amstrad Joystick
3" Disk with mixed software
Total Value £76.88
Special £6.50 + £3.53 p&p

Nixed pack of games PP6

FORMITA

GRAND PRIX

Experience the

pinnacle of motor

one simulation.

EDITOR

Do you think you can

produce a magazine

that's even better than

this one? Now's your

chance to try!

PLASTIC CASES FOR CF2 3" DISKS WAVE WIDGITS, SPECIAL OFFER old price £9.40 pecial £7.99 + £1.18 p&p

Mixed pack of games (Pack 2) PP7

+ 1 free joystick
Pack value £150, Special £4.99 + £4.70p&p
**** NO WARRANTY ****

STAR COMMAND

This strategy game has

you in control of a vast

fleet of space craft, can

earth?

CROSS-IT

This program has over

100 crosswords, with

varying levels of

difficulty - and you can

win it by sending for

our information pack!

TURN YOUR MONITOR INTO A T.V. THE MP-3 T.V. TUNER NOW CHEAPER THAN EVER!

ULTRA SOFTWARE

HIGH QUALITY - LOW PRICES

TAPE = £3.49 DISK = £5.49

AVAILABLE NOW

sport, with this formula you save/destroy the

£ 24.70 P&P THIS VERY SPECIAL OFFER IS WHILE CURRENT STOCKS LAST!

ī	AMSTRAD SPARES	PRICE	P&P
	CPC464	C7 50	01.10
	Service Manual - CPC464 Service Manual - Amendment CPC464/6128 + MP-3 & CT-1	£7.30	£1.18
	CPC6128		
	Service Manual - CPC6128 Service Manual - Amendment CPC464/6128 + MP-3 & CT-1	£11.00	21.18
	Service Manual - Amendment CPC464/6128 + MP-3 & CT-1	£7.15	£1.18
	AM190005 - Replacement Disk Drive (Internal)	£50.00	£3.53
	AM190005 EXC - Replacement Disk Drive (Internal) Exchange	£35.00	£3.53
	AM190005 - Replacement Disk Drive (Internal) AM190005 EXC. Replacement Disk Drive (Internal) Exchange AM170885 - Cabinet Top - CPC6128 AM170857 - Cabinet Bottom - CPC6128	£6.50	£2.35
	AM170857 - Cabinet Bottom - CPC6128	£5.30	£2.35
	AM 170 124 - Speaker - CPC6 128 AMSDCPC6 128ACP - 6 128 CP/M Plus System Disk AMSDCPC6 128BDL - 6 128 DR Logo & Helip Disk	£10.48	£0.59
	AMSDCPC6128ACP - 6128 CP/M Plus System Disk	£17.12	£1.18
	AMSUCPCO 128 DL - 0 128 DK LOGO & Help DISK	£13.22	£1.18
	AMUICPC6128/65 - CPC6128 User Manual	£10.43	£2.30
	CPC464 PLUS	£23.04	£ 1.10
	Service Manual - CPC464+/6128+	25.63	£1 18
	Service Manual - CPC464+/6128+	\$18.49	£1 18
	AM270773 - Cabinet Top	£1130	£3.53
	AM270774 - Cabinet Bottom	£6.65	£3.53
	AM270775 - Cassette Mechanisim	Phone	
	AM270777 - Cassette Lid	Phone	£0.59
	AM270777 - Cassette Lid AM270779 - Keyboard Assembly (ESU44LN027AA) AM271012 - Socket Audio (Stereo 3.5mm)	£33.97	£3.53
	AM271012 - Socket Audio (Stereo 3.5mm)	81.13	£0.59
	AM270792 - Paddle	£8.34	3
	AM2/1618 - Button, Power Switch (A) Outer Part	\$0.13	£0.59
	AM271618 - Button, Power Switch B Inner Part AM270859 - Cassette Button Record	£1.06	£0.59
	AM270776 - Cassette Button All others.	£0.03	£0.59
	AMAZOOO2 Suitab On /Off (ESD 2075)	£0.03	CO 50
	AM170002 - Switch, On/Off (ESD-3975) AMUIARN5/UK - Manual 464 Plus / 6128 Plus	£15.28	£2.35
	CPC6128 PILIS		
	Service Manual - CPC464+/6128+	£5.63	£1.18
	AM410891 - Cartridge, Basic & Burning Rubber CPC464+/6128+	£18.49	£1.18
	AM 1 / 0855 - Cabinet lop - CPC 0 1 28+	Phone	
	AM170857 - Cabinet Bottom - CPC6128+ AM270779 - Keyboard Assembly (ESU44LN027AA)	Phone	
	AM270779 - Keyboard Assembly (ESU44LN027AA)	£33.97	£3.53
	AM271012 - Socket Audio (Stereo 3.5mm) AM271610 - System Disk CP/M Plus, for 6128 Plus only AM270792 - Paddle	81.13	£0.59
	AM2/1610 - System Disk CP/M Plus, for 6128 Plus only	1 6.63	£1.18
	AM271410 P. Har Para C. State (A) October 2	£8.34	£1.18
	AM271410 Power Switch (A) Outer part	£1.00	£0.59
	AM271618 Bullon, Power Switch (A) Outer part. AM271619 Bullon, Power Switch (B) Inner part AM271621 - Disk Drive Frame (Cage).	Phone	£0.39
	AM271611 - Penlacement Disk Drive (Internal)	250 48	£3 53
	AM271611 FXC - Replacement Disk Drive (Internal) Eychange	£47 50	£3 53
	AM271611 - Replacement Disk Drive (Internal). AM271611 EX- Replacement Disk Drive (Internal) Exchange AM170002 - Switch On/Off (ESD-3975)	£2.75	£0.59
	AMUIARN5/UK - Manual 464 Plus / 6128 Plus	£15.28	£2.35

OFFERS WHILE STOCKS LAST. (ANC) 3 day £10.58. Next day £14.10 COD + £2.35, maximum UK postage charge £10.58 per 20kg/£500. ALL PRICES INCLUDE VAT. All sales subject to our trade terms of trading.

WALNEY AUDIO VISUAL & ELECTRICAL DISTRIBUTION, 1 BUCCLEUCH STREET,
BARROW-IN-FURNESS, CUMBRIA LA14 1SR.
TELEPHONE: 0229 870000 (6 LINES) Hours: Mon-Fri 10.00am - 5.00pm.

Welcome to ACTION TEST...

Football Managies

ME: 17 LEAGUE MATCH AWAY

■ Football management sims are amongst the most maligned (and most popular) of game types. We test out the lot...

Turbo the Tortoise



Hi-Tec (and one of their rare no licence releases), Turbo is tops!

Captain Dynamo



■ Vertical jumping lunar lunacy from CodeMasters' new geriatric hero. But how wrinkly's the game itself? Find out here...

CODEMASTERS • 0926 814132 • £3.99 CASSETTE

The world's first garden-em-up. Hmm... So is this an inspired piece of game creation, then, or have the past thirteen years of home computing been garden-em-up free for the simple reason that the whole concept is completely stupid?

The answer to both questions is 'no'. No, this isn't an inspired piece of game creation - it's just a slow and Falla's my favourite, cos she dreary beat-em-up with a bit of horticulture thrown in. And no, the last what about Hover Bover, Lawnmower Simulator and

Grell & Falla is a game of two

Magic Garden?



burly fairy, called (can you some than your average horticultural guess?) Falla. She was going to be called Fella, before CodeMasters decided that 'fella' wasn't a very good thing to call a girlie. This odd partnership are

being employed as gardeners characters; there's a burly goblin by a sorcerer. Tending a sorcerer's between the two characters, you must (called Grell) and a somewhat less garden is of course a lot more trouble-



levels. Er, it's a long story...

endeavour. As well as planting seeds and fertilising the soil, the mystic twosome must also turn possessed fluffy animals into good-once-more fluffy ani- wrong with the game then. Adam? It's mals, using a subtle blend of too slow, mate. Everything scrolls spell-casting and extreme violence.

engoodify all the slugs, bunnies, frogs and other cuties you encounter. Sorting them all out takes you to the next level, but to earn some cash you also need to do some gardening, eg grow a few

steps: (1) Take control of alla. (2) Take to the air and sprinkle some fairy dust over the piece of grass you want to use. (3) Switch control to Grell. (4) Plant a seed in the the dusted area. (5) Watch in wonder as a beautiful flower grows (and you get killed for

ROD LAWTON

SECOND OPINION

"There's a few interesting

ideas in here, and it looks

quite jolly. What really lets it

own is the lack of speed.

Merely average."

standing around in the same place for too long).

Sounds fair enough. What's laboriously, and there's an 'inertia' fea-Utilising the Return key to toggle ture for extra grimaces. It takes a few seconds for your characters to turn round. Even though you're vanking the joystick to the right, your hero will continue drifting left before falling into a river and drowning. Let's be honest,

the speed these sprites are travelling at they ought to be able to turn on a sixpence.

In summary, the screen is small, the sprites are large, the graphics and sounds are mediocre, and the controls take more getting used to than could possibly be good for them.

The bunnies are sweet, though

Adam Peters

Grell fires off stars to make

To you, twenty quid. Go on..."

FIRST DAY TARGET SCORE

Get to level ten

Codemasters rarely go in for mode O. This is colourful if a little garish, with little animation.

Not much going on really - just a couple of standard bleepy effects to go with the action.

grab factor

The game looks quite naff, and the control method will put you off right from the start.

staying power

50 levs is a helluva lot. Stick with it and you might get the taste. Quickly gets tiring though.

FOR OUR INFO PACK & A 25% VOUCHER SEND A 2nd CLASS STAMP TO.

INTRODUCTORY OFFER mention Amstrad Action for **OEO**/ discount 40 / voucher

ULTRA SOFTWARE FULLING MILL BROUGHTON BANBURY **OXON OX15 6AP**

AMSTRAD GAME CARTRIDGES FOR 6128+/464+/GX4000

TITLE	BOXED WITH	UNBOXED NO
	INSTRUCTIONS	INSTRUCTIONS
Klax	£24.99	£14.99
Pro Tennis Tour	£24.99	£14.99
Batman	£24.99	£14.99
Operation Thunderb	olt .£24.99	£14.99
Barbarian II		
Navy Seals		
Robocop II		
Pang		
Switch Blade		
No Exit	£24.99	£14.99

* Special offers: 10 Unboxed games (all different) £100.00 * **Amstrad GX4000 Games Consoles** with free game £59.99 Amstrad Paddle Controller £9.99

Amstrad MP3 Modulator/TV Tuner, for use with CTM644 monitor£33.99 Amstrad CPC464 cassette mechanism with tape head and motor£29.99 Amstrad 464 head alignment tapes.....£9.95 Tape Head Demagnetizer£9.99

Prices include VAT, postage and packing

All orders by return: Cheque/Visa/Access Trade-In-Post, Victoria Road, Shifnal, Shropshire TF11 8AF VISA

Tel/Fax (0952) 462135

'Group tests' are an excellent way to show people the differences between products and wby one is better than another. Camera mags, cycling mags and business computing mags really go in for these, so why can't you do the same thing with computer games? We couldn't think of any reason at all. That's why ADAM PETERS is now wearing a sheepskin coat and shouting "early ball" at his monitor... setting the

style

Football is a mighty popular Stands to reason really, seeing as how the two activities appeal widely to the same target group - adoles-

Football arcade games go down cer strategy games are much more of an acquired taste. They call for you'd rather be Graham Taylor (or someone good) than Terry Fenwick (or someone good), swapping glamour for involvement, then these are the games for you, chum...

A swift glance round our local John Menzies and we were ready to phone the MOD to report an invasion. Footie strategy games really poorly-lit parts of every budget soft-Maracana stadium.

A company called D & H Games through its Cult label - has to accept most of the credit/blame (delete according to taste) for this. 23 different CPC football games, H/Cult have only actually produced they've just put it in 23 different

Oh well, settle back and join us as we put six games of this type through their paces, and pass judgment on a further dozen.



1st Division Manager Codemasters •£3.99

Background This came out a cou- Background Football Manager 2 is ple of months ago, but the Codies the sequel to (not surprisingly) programmed by veteran Cult coder through writing games (it says here). Nick Thompson.

not the sort that help old ladies across instructions for FM2 run to two or Right, let's go... roads)... oh, and there's a computer three pages. database. Fair enough.

what they're doing with it, there's also for up to ten minutes. a reasonable graphic depiction of the **Pros** Brilliant match sequences. ebb and flow of play.

Pros The presentation is brilliant, with the main menu being a picture of your office. Move your pointer round price, so get bidding – make this one for very long. the screen, clicking on filing cabinets a classic. You select exactly where to and phones when you want to use them. (This technique was first put tactical sense is necessary. into use in Yes, Prime Minister.)

Cons Silly transfer market (you need to type in a name for who you want to things are going badly, you might get Terribly sorry and all that. buy - the only players you'll know bored of these. You could make a cup about are the ones you've played of tea while they're on, but that would all. To put it into perspective, just against). Basically it's a standard Cult mean getting through about a dozen imagine Lemmings without any lemtype game, dolled up a bit. Most cups of tea an hour. Don't be sick. games end nil-nil.

on your next opponents, he'll tell you decent tactical formation – is the key. every time it tells you to. who their best player is. Buy that Summary Football Manager 2 is Summary Even the transfer market player immediately. As well as quite simply one of the best soccer in this is duff (you have to wait till a strengthening your team, you'll also management games available. Only player is offered to you, and then be weakening theirs.

Summary Very nice to look at and compete. And I'm not just saying that play is just so limited that it makes easy to get into, but behind all that it's because I'm so ace at this, having just this just about the most pointless not a very complex game and goals won my first FM2 match for three game ever. You'll find more options in are awfully hard to come by.



menu screen. £800 for information of Cardiff? We'll buy a guide book.

Football Manager 2

Addictive •£3.99

most pretty standard; training, scouts featured in this round-up consist of

Matchday Probably the best exam-really good, with extended highlights you want to train your lads (1, 2 or 3) ple of the 'half-and-half' type of match of each game. These are as detailed and pick eleven people to put out on highlights. As well as detailed com- in appearance as top footie arcade the field. And that's it really. Oh dear. mentary on who's got the ball and games, and the highlights can go on

> detailed player attributes (fitness, skill, age) and an excellent transfer market shoot at goal. It's quite entertaining in - players go for less than the asking position each of your players, so a

Cons You can't avoid watching the highlights. After a while, especially if

years 8-1. (Stop showing off – ed.)



Football Manager 2 does have really excellent match sequences, as you can see. C'mon you reds... These chaps don't even move!

League Challenge Codemasters • £3.99

Background Before we beat this kicking and screaming into the dirt. seemed to be keeping quite about it. Football Manager, which was the first we'd better outline the situation: this is The first we knew of the game was real mega-selling game. Author Kevin a league management sim just like when it popped up in this month's bud. Toms was also apparently the first Footballer Manager 2, Soccer Boss get charts (at number four). It's person to become a millionaire and the rest, It has a full four divisions, cup competitions and so on. Options Tons, Whilst the instruct Whereas Track Suit Manager is hin-Options A whole host of functions. tions for most of the other games dered by its subject matter (the international arena). League Challenge (the sort that watch opposing teams, just a single paragraph of text, the should have everything going for it.

> Options Virtually none, unfortu-Matchday This is where it gets nately. You can select how intensive

> > Matchday Ha ha ha, what is this? Little block men marching on the spot with thin black lines flashing on screen for a micro-second whenever they a mindless sort of way, but sadly not

> > Pros Er... well, your five year old brother would be able to play this, as would your 90 year old granny. So it's a game for all the family then. And... er... no, I can't think of anything else.

Cons There's just no game here at mings in it or Pro Tennis Tour without **Tactic** Pitching the right players a ball. I mean, really, what's the point? Tactic Bung your scout £800 to spy against the right opponents – and a Tactic Just press 'c' for continue

> Kenny Dalglish's Soccer Manager can choose whether to buy). The gamea BR buffet car. Aaaaaargh.



Soccer Boss Alternative • £3.99

Background Another oldie, Soccer Boss came out as a budget-priced rival for Football Manager 2 and sold in its thousands. It's still available from most good budget software stockists (especially those with electronic duplication systems).

Options The main screen shows your squad and allows to you to move the players around or select the separate menu that includes the transfer market, finance, league tables etc. Matchday There's no graphics at

all and no commentary either. But does that mean that it's dull? NO WAY! Matchday in Soccer Boss is the sort of nail-biting experience that most ardent football fans will be more than familiar with. You can't get to the game so you call up the results page of Ceefax/Oracle and bite your fingers to the bone? That's what SB is like.

Pros A fairly simple game, but that's a 'good thing'. There's enough options to make it a tactical challenge and everything's laid out really well. The match reports (goalscorers) are fabulously nerve-wracking.

Cons There's no haggling on the transfer market and little in the way of training, but the game wins through even without having this extra depth. Tactic Snap up all the 9-rated players on the transfer list and ditch all your deadweights (3ers and 4ers, to begin with). There's plenty of players up for sale, so you can afford to have a really small squad - in the event of an injury, just buy a replacement.

Summary Soccer Boss is nothing to sell your granny to the dustmen for, but it's a reasonable game. It's simple to get into but soon become as addictive as chocolate mice (chocolate mice? - ed).

Season 1

■ A squad of only twelve? With the Soccer Boss transfer system you can get away with it..

The Match Cult • £3.99

programmed by the same bloke.

Options The same options as 1st completely stupid? Division Manager. If anyone wrote a Options Lots of tactics, both for the Soccer Management Game Creator team and for individual players. program this would be it. Everything's Reports on the players as well, after there, but in its simplest form.

Matchday Similar to 1st Division. but the text is a little more exciting and the graphics are a lot sadder.

required option). The bare bones of all of its own. the game is actually slightly better Pros Probably the best international than the Codiemasters game, but management sim around, though everything else (er, the flesh of the that's not saying much. A massive game) is too dull.

agement game, with nothing at all to in the same way that teacher sees merit a mention above all the rest. If their pupils. you've got one Cult game, you don't Cons "No finance, no administration" need the others. Unless you're collect- shouts the box. Sorry, but when you ing them in the same way that other narrow down the field of play you narsad people collect stamps.

Tactic Bung your scout £500 to spy the day-to-day involvement that makes on your next opponents, he'll tell you management sims so addictive. who their best player is and... yep, Tactic Spy on the opposition and try this game works in exactly the same out as many players as you can early way as the one on the far left. The on. That's what Graham reckons anyscouts earn less in this though.

Summary I'm sorry but this is 1st **Summary** This went down a storm Division Manager without the pretty with most of the computer press. pictures and no-one is going to tell us Why? There's so little to do as an interany different. And 1st Division national manager for a start. We want Manager without the pretty pictures is gate receipts and transfer markets like crisps without flavouring. Dull.



the match sequence in *The Match* is reasonable enough, we s'pose.

Track Suit Manager Hi-Tec • £3.99

Background One of Cult's massive Background The only game of the soccer strategy stock, The Match isn't six that's based on being a national their most recent title (things like team manager. Take control of International Manager came after) but England (or another country, if you it's still riding high in the charts. A few don't mind spending an hour typing all obvious similarities (content-wise) with the player details in) and try to win the 1st Division Manager, but then it was European Championships. Can you do better than Graham Taylor, or are you

> all being an manager is all about man management really anyway. (Er...)

Matchday Most odd. The commentary is the sort of thing we're used to. There's more chance of someone but the graphic representation of the scoring than in the CodeMasters game is just a bar that moves left and right a small pitch, in line with the ebb **Pros** Features an easy selection pro- and flow of the game. Or rather, not. cedure (hit the first letter of the That little bar seems to have a mind

array of tactics are at your disposal Cons This is an identikit soccer man- and you soon start seeing your team

row down the appeal. There just isn't

way, but why should we listen to him? and things like that.

QUICK COUNTER

■ Tactics ahoy! There's a lot of tactical decisions to be made in this average internationals sim.

and the rest...

The following are not included in the following list; a lot of D & H/Cult games (due to lack of space play as well as manage (eg Gary United, Manchester United Europe) about. So what is included in the list

the big list

CodeMasters CUP FOOTBALL	54%	ľ
D & H Games	36%	1
FOOTBALL DIRECTOR		
D & H Games FOOTBALL MANAGER	50%	1
Addictive	64%	k
FOOTBALL MANAGER 2		Г
Addictive	81%	ı
INTERNATIONAL MANAG	ER	l.
D & H Games	29%	ũ
KENNY DALGLISH SOCC	ER MNG	ľ
Cognito	85%	ľ
LEAGUE CHALLENGE		L
Atlantis	12%	Ľ
ON THE BENCH		Ľ
D & H Games	42%	
SOCCER 6128		į
Graham McQuoid	51%	ı
SOCCER BOSS		L
Alternative	66%	
SOCCER DIRECTOR		
GTI	31%	ı
SOCCER STAR		
D & H Games	54%	
THE FOOTBALLER		ŀ
D & H Games	38%	ľ
THE MATCH		ı
D & H Games	30%	ľ
TRACK SUIT MANAGER		ľ
Hi-Tec	43%	ľ
TREBLE CHAMPIONS		K
Challenge	46%	F
WORLD SOCCER		
Zeppelin	72%	ľ

ring their bell

081-804 8100 ADDICTIVE ALTERNATIVE 0977 797777 **ATLANTIS** 0732 465511 CODEMASTERS 0926 814132 D & H GAMES 0462 816411 0742 587555



a Level Journey Turbo The Tortoise

There are six different levels - or zones - in the game, each representing a different time zone. They have varying graphistyles and a selection of different hazards abound. Here's a quick tour round a snippet of each zone, to give you some sort of an idea as to what to expect...

LEVEL ONE: PREHISTORIC ZONE



LEVEL TWO: ICE AGE ZONE



LEVEL THREE: EGYPTIAN ZONE







LEVEL SIX: FUTURE ZONE



■ Somewhat reminiscent of Titus' Prehistorik with its scenery of caves, grass platforms and lavafilled rivers, this level sees only a small number of foes (a couple of cavemen and grandpa tortoise), some simple hazards to get you in the mood, and loads of honus blobs. TIPS: The main hazards on this level are stepping stones that sink into the sea (1) and bits of platform that crumble under your feet (2). Use the bright red saucers as lifts (3).

■ Things get a bit more hectic on the second level as a load of enemies pile out to meet you; ice-people, walruses (we think) all your worst refrigerated nightmares. The scenery also gets maze-like. TIPS: As granny used to say (before they took her away), "beware of flying fish" (4). Don't be afraid to crawl when the way gets narrow (5), and don't forget those extra bullets (6). And watch out for falling icicles!

■ Walk like an egyp-tian. It's the time of the Pharaohs all of a sudden, and everywhere seems to be covered in short dudes with big helmets on. The scenery's nice and bright, but the helmet-heads are encouragingly thick. TIPS: Watch out for sphinxes that spit fireballs (7) and spikes that shoot out of the ground (8). When the path ahead seems to be blocked, keep an eye out for fake marble blocks (9) that you can walk through. Or fall through.

■ The fourth zone starts off with a fairly dull wander through a creature-packed and obstacle-less Sherwood Forest, Things return to normal when you reach a castle and discover that it's ever so slightly haunted. TIPS: There are tons of different enemies lurking in the Middle Ages, most notably zig-zagging witches and ghosties (10) and self-propelled airborne andles (11). On a positive note, there are some springs to go bouncing on (12).

■ Ah. back to the present day. Trusty old bricks and mortar, covered in graffiti (except they forgot the graffiti). Poor old Turbo doesn't find the present day any less trouble-strewn than his jaunts through history though. TIPS: The enemies here are fairly back and forth. Land-based adver saries include film reels and rotweilers (13), whilst birds cack acid from the sky (14). Chomp up those bonus points pills (15).

■ Technofear! This level is about structural hazards not physical opponents. There's laser beams, mashers, boxes, barrels and more. TIPS: Look out, it's a dangerous place. Firstly, there are a ot of very annoying metal walls that you can't get past (16). Then throw in some nasty one-way escalators (17) and some big, bad electric things (18). A bit duller than earlier levels, but darned tricky nonetheless.

HI-TEC • 0742 587555 • £3.99 CASSETTE

There's an awful lot of noctur- For a start, it's very neat. There's no deserve plenty praise. Very colourful. nal creatures making it big in the world of home computing at the moment: Turbo the Tortoise. Titus the Fox, Sonic the Hedgehog, Oswald the Aardvark... (Oswald the Aardvark? I've never heard of Oswald the Aardvark ed.) Turbo may be the most recent addition to the fold, but he's already starting to make an impression with his excellent platforming around. When night falls in Britain now, it's move over foxes, hedgehogs and aardvarks - the tortoise is here! (There's never been a game about Oswald the Aardvark, Adam, You just made that up, I'm sure of it. And anyway, tortoises aren't nocturnal - ed.)

Turbo the Tortoise is on the face of it a very run-of-the-mill platformer. The graphics might be quite sweet, especially the variety of styles between the different levels, but the game itself is just a simple running and jumping thing, right? You've got a gun at your disposal but your main method of despatching the enemy is the old 'jumping on their head' standby. Nothing special, huh?

toises, he told us that they were turtles

Chilean. This guite excited us.

We had all these visions of tor-

copper industries and joining

military juntas. Sadly it was a

dodgy phone line and we'd mis-

heard. In fact, tortoises are

ping necessary. It's a straightforward sideways scroller. (Ossie Aardvark? Are you sure you're not thinking of Ossie Ardilles? I don't think there was a game about him either though - ed.) been pitched just right. Whilst the end-

features that help chalk up the points in its favour: a different weapon for Turbo on each level, secret (but easily found) bonus rooms, loads of powerups... the list goes on and on, Er, well actually it doesn't. It stops with 'power-ups', that's why I put those three dots there. (Of course I suppose it might be a game that hasn't been released yet, which I haven't heard of. But hey, who'd really want to produce a game about an aardvark, it's such a silly idea - ed.)

platform games we've seen in ages. computer bleeps, but the graphics

So what's the difference

between tortoises and turtles

and are more likely to sink if

you drop them in the bath. Oh

ves, and turtles wear headbands

and shout "cowabunga!" at reg-

complex controls, no convoluted plot. no over-taxing mission and no map-

The difficulty level seems to have of-level guardians are perhaps a bit over-strong (that's a sad fact of most platformers), practice and concentration will see you progress every time

The game also has a load of other

WRONG! Turbo is one of the best Sound is limited to a few typical

varied and smooth, if a smidgeon slow. It doesn't quite match up to the sheer depth of play found in Hi-Tec's other recent platformer. Potsworth & Co. but it still smacks of class and is one of Hi-Tec's few titles not relying on the popularity of a Hanna-Barbera cartoon character for its sales. (But all aardvarks do is eat ants. What sort of game is that going to be, then? "Plaving the powerful, muscular Oswald, you have to wander round a cave eating ants till the sun comes out and you go to bed." Pure action that. I'll be first in the queue for a copy I DON'T THINK - ed.)

Turbo is fearsomely addictive and suitably varied. The strength of the guardians (you have to jump on their moving - heads several times before they cop it) is a bit of a problem, but once you've sussed their movement pattern and got your timing worked out, you should be a match for any of them. Excellent. (I suppose you could have them hunting out termite mounds, like in an arcade adventure. That might be quite good that - ed.) Rod... (And you'd have to run away from lions and leopards and cheetahs and other things that prey on aardvarks - ed.) Rod... (What? - ed.) That bit about Ossie the Aardvark was a joke. (It was? Er... I mean, I knew that. Of course I did. Ho ho ho. Now, have we got anything in to review for the centre pages yet? - ed.)

Adam Peters

SECOND OPINION

"I don't like tortoises much, because they don't chase sticks and bark at strangers. I don't like dogs either. Very good game, by the way." ROD LAWTON



■ Cavepeople with mohicans are just one of the nasty foe-types out to make you tortoise mi



■ Jeepers! The Big Boys' Book of **End-of-Level Guardians suggests** moving out of the way here...



■ Each level includes a short bonus stage where you can leap bout picking up bonus blobs.



■ Here we are in amongst all the helmet-heads and green platforms n sunny Ancient Egypt.

graphics

toises going round privatising then? Well, tortoises are smaller

FIRST DAY TARGET SCORE

Wax the first quardian

Lovely and bright. Detailed sprites with lots of colour and six distinct styles.

from the Chelloni family of ular intervals.

sonics

Average computer noises, really. A wide selection of effects, but nothing special.

grab factor

Very easy to get started with, this is so tidily put together you'll be into it within seconds...

staving power

...and the strength of the guardians and different obstacles makes it a real stayer.

Freescape - the most inventive game style ever or a tedious pile of old boxes? The choice, dear readers, is vours. But first let's hear the evidence from both sides.

Innovation: The Freescape 3D environment is the closest we have ever come to virtual reality on a home computer. It allows the player to explore every aspect of the world they're placed in, and its detailed 3D style really lets you feel that it away, Spotty... you're 'there'. The games are very involving and very challenging.

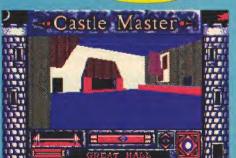
Old boxes: Limited colour and a load of dull rectangles is hardly the graphics breakthrough of the century. The games themselves mainly involves tiresome walking, including lots of back-tracking. There are no real enemies to be found and anyone brought up on arcade blasters will find these games mighty uninspiring.

So that's that, but how does Castle Master fit into all this? The most popular and most critically acclaimed of the Freescapers, CM contains some of the best 3D graphics ever and is a lot easier to get started in than most of the games that went before it. If you don't like this one, you won't like any of the Freescape games. This is as good as they get.

Castle Master has to score loads for the sheer technical perfection. It's impossible to fault really. but be warned: at least one of the AA crew casts their vote firmly on the side of the 'tedious load of old boxes' argument. It's a nice game for Balrogites and Dizzy fans, but those without the commitment to see a game through to the end will be wasting their money on this one.

Sorry, but there

ACTION - AUGUST-1992



■ Here we are, inside the castle, and there's lots of passages (black bits) to try.



■ Excellent, a swimming pool! Little chance of going for a dip without drowning, mind.



Next month Action Replay leaps to three pages in size. This month ADAM PETERS struggles to pack as much as possible into only two. Take

CRACK DOWN

KIXX • £3.99

As crack mercenaries (that's crack: very good, not crack: cocaine), you have to battle the evil Dr K. •Stop• Why has this bloke decided to call himself Dr K? He is.

we assume, planning to take over the world. With a name like 'Dr K' everyone's going to realise he's trying to take over the world, since that's all that people called Dr K ever do. In order to avert suspicion, so he can use public transport without being



■ Split-screen two player games are usually crap (cf Bonanza Bros) but this one's fab.

doesn't he call himself something else? Like Fred it easy to beat when playing one of the top teams, in Jones or Bob Wiggins, for instance. Berk. •Okay, carry on You have some bombs to plant. There can be two of you or only one of you, but a two-player say, other than: "It's overhead viewed, the goals are game is a lot more fun and you don't waste half the at the top and bottom of the screen, the opponents

Right, that's the background nonsense over with. game... and it's fast. Now what about the game? Well, if you're an old Very fast. Faster fogie (like wot we are) you might remember the than..." game Sabotage on the ZX81. This is a similar sort of idea. You get an overhead view of a complex and have to rush around it priming bombs by running over them. (Not the safest way to prime a bomb, if

Crack Down is actually quite good fun. The map at the top of the screen shows you where the bad guys are, but any notion of tactics takes a back seat to plain mindless blasting. With two players it gets even more manic. The multi-load is a nightmare, but ignoring that, this game is most

ITALY 1990

KIXX • £3.99

What can we say? "This is AA's favourite football game of all time" is one of the things we could say. We'd then have to explain why. though, and we'd probably come up with something along the lines of: "It's fast. Very fast. Faster than a very fast thing that's been having lessons to improve its speed and is also in a real hurry anyway. It's fast."

We could then add: "The team's from the 1990 World Cup all appear in their correct colours and display something aspiring to the correct skill level for the team in question." (This was all programmed before the competition took place of course, so the mighty Cameroon are as crap as Western ignorance originally expected them to be.)

Maybe then we could come up with a speech like this: "The game might not have the tactical depth of. say, Emlyn Hughes' International Soccer (also out on budget at the moment), but as an action-packed footie arcade game it could hardly be any better. The speed really is incredible, and it's dead smooth to boot." ('To boot', geddit? – oh, never mind.)

Under some obligation to point out the negative nicked by the secret service (for example), why aspects, we'd add: "Experienced gamesters will find which case they should then try it as South Korea."

Having said all that, there would be little else to range from soppy to rock hard, it's a brilliant



■ Corner, that's never a corner! You must be blind, ref. What did they pay you? (etc)

KLAX

HIT SQUAD • £3.99

Some people are really puzzled by puzzle games. "What's the point?" they say: "with all that technology at my disposal I want fast, colourful all-action gameplay, not something that would work just as well on the ZX80." To an extent, those people (Mr & Mrs Richards of Solihull, John Townsend of Fife, you



■ We've got a couple of piles on here (see a doctor - ed), white and green (ugh! - ed).

know who you are) are right. A lot of puzzlers on home computers are just games that are available in paper and plastic from your local toy shop, rearranged so that a computer opponent can take the with enough reliance on tactics and brain-power to place of a brother or school chum.

On the other hand, there are some puzzle games that were designed specifically for computers. Games that could quite comfortably spend the n'ae regret it. night with words like 'fast', 'colourful' and 'all-action'. Tetris is one, and this baby Klax is another.

Chances are you know what this game is about anyway. For those that don't, here's a minimalist explanation: coloured blocks - bat - collect blocks on bat - move bat - drop blocks - blocks match blocks disappear - points - enough matches next level - blocks reach top lose life.

It's a hectic game, which many people rate higher than (the more tactical) Tetris, and there's far worse things you could do with your time (washing up).

MIDNIGHT RESISTANCE

HIT SQUAD • £3.99

Strap on your big guns, chums, it's time for to wrap a girlie bow in your hair and pretend to be Rambo. Midnight Resistance is an excellent shootie. The graphics suffer from a serious case of Spectrumitis, but this doesn't detract from the action at all.

There are a lot (and we mean a lot) of foes involved, and you'll really need your wits - as well as your machine gun – about you. Enemy gunners often get a shot in at you within seconds of them scrolling on to the screen (before you've even registered their presence), so a lot of practice and a good memory is the way to succeed.

As well as other foot soldiers, there are tanks, copters and all sorts of other serious hardware around, and everything has got the same mission: kill the reckless geek with the girlie bow in his hair.

Midnight Resistance is a shoot-em-up as shootem-ups should be. Action-packed, challenging and set it above the rest of the herd. We recommend you invest four guid in this game, you'll



■ Yikes! Loads of machine gunner type people. Fire diagonally down to wax the gets.

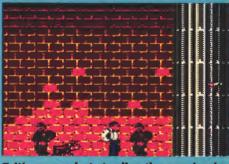


■ Nowhere to drop this one. Having two red ■ Top Tip: Running straight into bad guys is piles and two blue piles doesn't help much. not good for your health (ie energy level).





■ The motorbike level is just about the best bit in Sly Spy, but even that's not much cop.



■ It's no use just standing there and going pacifist on us Sly, shoot the swine you fool.

SLY SPY

HIT SQUAD • £3.99

Get ready to have a really puzzled expression on your face, the first level of Sly Spy is just too silly for words. I can't draw cartoons though, so words it'll have to be. The screen shows sky (you can tell it's sky because it's blue and full of clouds). A character in a tuxedo falls downwards in a stupid manner. before levelling out into a prone position. This is you. A few other dudes in more sensible skywear also fall stupidly downwards. These are the baddies. It's a free-falling shoot-out. Hurrah (not)!

There's little chance of the enemies actually hitting you with a bullet, (un) fortunately, so you simply have to pop up and down into their line and pick them off. The real challenge is to see if you can finish this and get on to the (slightly more sensible) later levels without falling to the floor in hysterics and wetting yourself at the sheer idiocy of it all.

The games does gets a bit better later on, with the action thankfully ground-based. As well as onfoot action, there's also the prospect of some motorbike combat and more.

The whole thing is still terribly slow though, the sprites are too big and the bad guys are too easy to pick off. And also it's all so clumsily stupid and stupidly clumsy.

A percentage score tells part of the story, but often it's better to include a daft analogy too, so with that in mind, here's a daft analogy: I would far rather stick my head into a bucket of warm porridge than ever play Sly Spy

again. And I don't like porridge.



Next Month in Action Replay: Cyberball, Emlyn Hughes' International Soccer, International 3D Tennis, Pro Tennis Tour, Nightbreed, Silent Service, Supercars and more...

ring their bell aving trouble getting hold of the games? Why not ring the publishers and ask for

the address of your nearest stockist... HIT SOUAD • 061-832 6633 KIXX • 021-625 3388

33

Well, you can't say we take the easy way out when it comes to reviewing games. Here's the whole of level one of Dynamo grabbed and stuck together. Special thanks to our Vertically Scrolling Lunar Platform Games Consultant, Jon Pillar... Teleport to level two Check the turtle has



■ If you think level one looks a

What do you get if you cross a series of vertical levels strewn with hazards with an old duffer in a catsuit? A horrible mess to clear up? NO, what you actually get is a reasonably good platform game.

The plot involves some equally decrepit villain nicking your mate's diamonds and flying off to the moon (to buy cheese?) with them, but we'll just ignore that and concentrate on the game itself.

It's difficult. The puzzles are all old style well-timed jump affairs (cf Manic Miner, Technician Ted, and recently The Addams Family), which

SECOND OPINION

"Captain Dynamo is mighty tougher. Tougher than a three month old piece of cheddar, in fact. But stick with it, it's a pretty decent little game" ROD LAWTON



^^^^

START

64%

Well, you can't say we take the easy way out when it comes to

Check the turtle has passed then spring to the platform above and leg it to the teleport (the ceiling's too high to jump on the tur-tle's head, so get that

This spring propels you straight into the spikes above (so avoid it!)

ng right (or else)

wall and up really quickly

More nasty conveyor belts

Watch out for the turtle

This isn't a solid wall. You can jump 'into' it then jump again to the platform above

You can catch this pulley across the spikes of death, but if you want to cheat just walk along the tunnel below them (good tip that)

This is a conveyor belt that conveys you towards those unpleasant spikes

This platforms moves back and forth across the screen

These spikes kill you (horri-bly) on contact

The trick here is to wait till the beam goes off and then jump to atop the ball itself. Continue jumping from ball to platform when it's safe, orking your way up...

Yikes! Dynamo has to wait nere till the death rays above stop (they alternate quickly between on and off). Then jump to the edge of that platform and duck

These things are lifts. They take you some of the way up to the next platform

irst of two restart points

The turtle can be waxed in typical Codies' jump-on-the-baddie's-head style

high up to fly to, but fortu-Try a gentle jump first to check the screen above. (Otherwise you'll hit a moon turtle and die horribly...)

Dynamo teleports his way into the level and sets about eating diamonds right from the outset



■ Loads of lovely diamonds! Oh

take a lot of practice and just as much patience. You get the standard three lives and no continues, so you've got to be prepared to slog real hard if you want to progress at all.

The game moves a bit slowly, and as we've said, the gameplay is very much class of '83. But if you're the sort of the person who reckons themselves to be a really ace games player, this little beast is going to test you out a lot more than the latest urban beat-em-up.

Some of the puzzles appear impossible, and many people might be tempted to give up when they hit one of these. But it can be done. If you're having problems with the first level, the guide to the right may help you out a little, but after that you're on your own. This is a game that's for battle-hardened gamesters only. No Sunday drivers.

Adam Peters

sweet enough buch of moan about prices, go on about the they made out that balloons could

always accurate in what they tell ple, sure. They're really good at all you. In Bubble Dizzy, for example, those things, but as for flying? No burst underwater. Patently untrue. There's a few porkies going moon) argument, but what about a

dudes, but they aren't war and complain about young peoway, I'm sure of it. The Codies might try the 'weightlessness' (on the round in Captain Dynamo too. For a space suit... (Snip! - concerned ed.)

start, old people can't fly. They can

FIRST DAY TARGET SCORE

Complete the first level (see map)

graphics

Four-colour Speccy port graphics, but very detailed and scrolls smoothly (if slowly).

sonics

A load of spacey whirry bleepy Dr Who noises accompanies the lunar action.

grab factor

It's difficult, chums. You'll need all your olde worlde platforming skills to the fore.

staying power If you can stick with it, the challenges get

harder and your determination rises.



chedit mode

We've gone Solution bonkers this issue! (Must be this famous summer madness.) Counting the second part of our Sphinx Iinx walk-through, we show you the way through no fewer than FIVE games. Your host, as ever, is PHIL HOWARD. Remember, send your pokes, tips, solutions and passwords to: Cheat Mode, Amstrad Action, Beauford Court, 30 Monmouth Street, Bath, Avon BA1 2BW...

Lopears: **COMPLETE SOLUTION**



It's certainly turned out to be a solution month, they seem to be 4. breeding like rabbits in this issue! Here's the complete solution to

Lopears, from Matthew Brekon of Poole...

1. Go past the two rabbit holes until you come 8.

- to the bucket
- Take the bucket
 - Return to the rabbit holes and go down the first one you come to
- Go right and take the key
- On the next screen, jump up on the boxes 11. Go right and give the lettuce to the unfriendly and out of the hole
- Go left past the shed to the pond
- Move right to the edge and use the bucket Return to the rabbit hole

- **9.** Keep going right until you get the the next lot of boxes. Drop the bucket and jump on the
- 10. Go left past the shed, take the lettuce and return to the rabbit hole
- rabbit; he will leave you alone
- 12. Continue right and jump the rabbit hole
- 13. Go left until you come to the post box, use the key, go back for the scissors, take the

Multiface Mischief: Guadalcanal



Multiface miracle-man Paul Williams from Broomhall has put his mind to Activision's Guadalcanal and given it a sound

poking in his regular and complete fashion. Once again you can do just about anything you like to weigh the odds in your favour.

• SCENARIO 1

Japanese Fleet info

9CE1	Destroyers	}	Transport	
9CES	Transporters	}	Group	
9C19-9C1D	See Fleet list	}	Raiding	
9C1E	Destroyers	}	Group	
9C9B-9C9F -	See Fleet list	}	Support	
9CAØ	Destroyers	}	Group	
9CSA-9CSE	See Fleet list	}	Carrier	
9C5F	Destroyers	}	Group	
Poke the for change state	J	S	with 00 - FF to	

Japanese Divisions

2nd Infantry Status 9E87 Ammo

9E88	Arms
9E89	Malaria
9E8A	Morale

1st Infantry Status

9EC8	Ammo	
9EC9	Arms	
9ECA	Malaria	
9ECB	Morale	

American Divisions

1st Infantry Marine Status

1 st 9A94	Infantry Ammo	Marine	Supply	
9A89	Morale			
9A88	Malaria			
9A87	Arms			
9A86	Ammo			

9A95 Arms 9A96 Malaria 9A97 Morale

2nd Infantry Marine Status 9007 0000

9AC8	Arms	
9AC9	Malaria	
9ACA	Morale	

American Fleet info

9810 - 9814	See Fleet list	} T.F.16
9815	Destroyers	}
9851 - 9853	See Fleet list	} T.F.64
9854	Destroyers	}
978E - 9792 9793 9794	See Fleet list Destroyers Transporters	} T.F.67 }
T.F.67 Supplie	s poke between 00	and FF

979D Troops

AINT	ACHEYSY			
97A1	General			
97A0	Medical			
979F	Arms			
979E	Ammo			

Fleet list

Poke	Туре	Name
01	AIRCRAFT CARRIER	ENTERPRI
02	HEAVY CRUISER	BOISE

AIRCRAFT CARRIER	HORNET
BATTLESHIP	WASHINGTON
BATTLESHIP	SOUTH DAKO
HEAVY CRUISER	SAN FRAN-
HEAVY CRUISER	PENSACOLA
HEAVY CRUISER	PORTLAND
HEAVY CRUISER	NORTHAMPTO
LIGHT CRUISER	HELENA
LIGHT CRUISER	JUNEAU
LIGHT CRUISER	ATLANTA
LIGHT CRUISER	SANDIEGO
	BATTLESHIP BATTLESHIP HEAVY CRUISER HEAVY CRUISER HEAVY CRUISER HEAVY CRUISER LIGHT CRUISER LIGHT CRUISER LIGHT CRUISER

LIGHT CRUTSER AIRCRAFT CARRIER ATROPAFT CARRIER ATROPAFT CARRIER

13

SHOKAKII BATTLESHIP HTET BATTLESHIP KIRISHIMA BATTLESHIP KONGO BATTLESHIP HARUNA HEAUY CRUISER TONE HEAVY CRUISER ATAGO HEAVY CRUISER TAKAO HEAVY CRUISER CHOKAT HEAVY CRUISER KTNIIGASA SUZUYA

JUNYO

HIYO

MAYA

NAGARA

SENDAT

ISUZU

TENRYU

HEAVY CRUISER HEAVY CRUISER LIGHT CRUISER LIGHT CRUISER

LIGHT CRUISER LIGHT CRUISER

• SCENARIO 2

All addresses stay the same. The American Fleet has an addition:

 3101 -	3793	pee lieer list	3 1.2.10	
97D4		Destroyers	}	

- 14. Go left to the tip opener and take it
- 15. Return to the rabbit hole and go down
- 16. Hop left to the first set of boxes, jump up and outside
- 17. Go left until you come to a tin box, drop the football, take the tin box and mix the objects
- 18. Drop the tin opener, take the football and go back to the rabbit hole
- 19. right to the rabbit, drop the football, take the numn and mix the objects.
- 20. Drop the pump and take the football
- 21. Go to the pond (where you filled the bucket) and use the football. When at the other side drop the football and go to the tree with the
- 22. Use the balloon, take the acorn and jump down from the tree
- 23. Drop the balloon and take the football
- 24. Go back across the pond and down the rabbit hole
- 25. Hop back for the bucket, then go left and jump up the last rabbit hole you come to
- 26. Go right until you come to the squirrel and use the acorn then take the bone
- 27. Return to the two rabbit holes and drop down the second one
- 28. Go left up the rabbit hole and keep going until you come to a flame on the rock
- 29. Use the bucket. Go past it the rock and up to your family - well done, you have completed Lopears!

Slightly Magic: COMPLETE SOLUTION



Slightly Magic is next on the solution chopping block. It's been worked out, written down and sent in by Joe Moulding of Balsall Common, Coventry.

- Take the bucket of water and give it to the Dragon on the starting screen
- Go left then take the other bucket and give that to the dragon
- Take the bucket and the megaphone. Drop the megaphone on the starting screen and use the bucket on the third dragon
- Fall down into the dungeon to the left and take the pebbles and the skull. Give the pebbles to the rock and climb up to the surface by jumping on the dots
- Take the magnet
- Drop the skull on the starting screen
- Go past the small dragon on the right
- Jump up to the ledge and jump along until you reach the screen with the pin
- Climb the ladder and get the Fright spell-off
- 10. Walk along into the spell book
- 11. Return to the dungeons and pop the bubble
- 12. Take the wand
- 13. Pick the skull up again and jump up to the
- 14. Use the Fright spell-on, and spook the (cont. on p38)

Total Eclipse II:

(AA78 covertape) Complete solution - part 2

Last month we brought you part 1 of the complete solution to the AA78 covertape game. This month, part 2...

You arrive in Thebes - D. Climb down from the teleporter and walk north, you will trip over a small step on the ground which will cause you to spill about half your water. There is nothing you can do about it but if you topped up your supply in Selguet - C you should have enough to last.

You will see a door at the top of the north wall; a Fill your flask with water and get first aid for small inverted pyramid is on the floor to its right. Position yourself below the door, away from the wall, then shoot the pyramid and some steps will door into Thebes - C.

Walk forwards and through the door on the far wall into Thebes - B. This is the invisible wall room - save your position here (you'll

Yep, you've guessed it the invisible wall room is a real stinker. It's really an invisible wall maze with invisible steps! You have to climb the invisible steps

and walk along the top of the invisible walls which eventually lead you to the door at the other end. Its best to map out the position of the walls on some graph paper. In there somewhere you will stumble on a gunshot type noise; crawl when you hear this. Moving swiftly along, you should now arrive at Thebes - A (or destroyed the tape forever!),

your aching head, and get the Sphinx part. Return to Thebes - B and save your position. Getting out is considerably easier than getting in! appear. Quickly go up the steps and through the Go to the east wall, face south and walk forwards, you will climb invisible steps and fall the other side. Climb the visible steps and exit to Thebes - C.

> Go to the west wall, just behind the Sphinx part and face south, you should be able to see a door, if not, walk backwards until you can. Turn yourself slightly to the right and walk into the wall (same method as used in Jinx - B) you should get to the door without it

The Sphinx Jinx

being covered, to arrive in Behbet - D.

You are standing on a ledge; on the wall beside you is an Ankh; collect it. DO NOT unlock the door to the west, simply drop off the ledge and go through the unlocked door to Behbet - C. To avoid getting hit by lasers walk around the perimeter of the room rather than straight across. GO through the door into Osiris - D. Look up to the ceiling you will see a block, shoot it and it will disappear. Now go through the door to the west and enter Behbet - B.

Keep going west through the next door to Behbet - A, keep on through the next door to Selquet - C, but hurry, the ceiling is coming down on you!

You are now back in Selquet - C, fill up with water if you need to and go back to Selquet - D. Use the teleport to Thebes – B. this time stand on the block facing south and go through the small hole leading to Thebes – E. Collect the Sphinx part and go to the far door, walk into it, unlock and enter Thebes – F.

From Thebes - F make you way back out to Sahara - C by going through Thebes - G up the steps to Thebes - H. Duck and crawl under the block to Entrance - A then up the steps to

killer bees

the hole and you will have arrived in Osiris - D. Go up the steps and through the door, you are now in

Collect the three Ankhs and return to Osiris -D. Go down the steps and up to the locked door, but don't open it, duck down and you will be able to crawl under the bar. You arrive at Osiris - C. Don't walk on the coloured carnet where the gold is, ignore it, and go through the door at floor level to Osiris -B. Collect the Sphinx part lying on the floor, go back through the door, up the steps and through the other door to get onto the ledge. You should have 5 Ankhs (3 from Osiris - E, one from Behbet - D and one from Selquet - C). If you haven't then you're stuck! (restart from saved position). If you do have 5 walk forwards into the floating blocks, keep walking and they will fall down to create a bridge, collect the Sphinx part and go back to Osiris - C and save your position.

You should now have 10 pieces of the Sphinx, if your heart rate is high go around the ledge and drop down onto the first aid box to slow it down.

Go up the steps to Osiris - E. drop over the ledge, U-turn and you will see an Ankh, collect Make your way around the pyramids until you find a it. Then go up the steps to the south and duck up. Get the final piece of the Sphinx and you've hole in the sand. Save your position, drop through down. When the door opens fully go through it, lifted the Curse and completed the game.

you will be in Osiris - F. Collect the Sphinx part and drop over the catwalk, go through the door and you are in Sphinx - X.

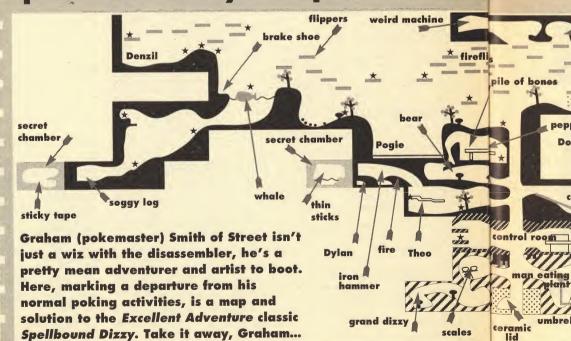
Make your way to Selquet - C, go up the steps. walk into the door to unlock it and enter Selguet - B the floating block room.

The floating blocks:- follow these instructions to make your way across. Its a good idea to save your position after every stage in case you have a fatal fall

- 1) Shoot the 2nd block, shoot the 3rd block (when it appears) leave the room and come back.
- 2) Go to the 6th block, you have to be very quick over the 3rd block as it disappears and re-appears
- 3) Go across to the 11th block, once again you have to be quick across the 7th and 8th blocks as they keep vanishing
- 4) Look down slightly; when the 12th block appears step onto it, U-turn and your sights should be on the 11th, shoot it, U-turn and step onto 13.
- 5) Shoot the 2nd block again, step onto the 14th (if the ledge isn't there shoot the 13th block and it should appear. Step onto the ledge and go through the door into the last room Selquet - A.

Selguet - A: Duck and crawl across under the lasers, up the other steps, get the gold and stand

Spellbound Dizzy: complete solution



- 1. You can store rocks on the clouds
- When getting down from cloud try to land in water or on trampette to avoid losing
- 3. Rocks let you go down the windy shaft 7. the more you have the further you can
- 4. The umbrella negates the effect of one
- 5. Using the hammer, bash the track 11. Get thin sticks from secret chamber
- Fix the brake shoe on the cart and take a ride to get bag, megaphone and gold
- Drop rock on the right side of the scales
- Get ear trumpet from Grand Dizzy Use megaphone to shout to Dylan and
- use ear trumpet to listen to the answer

- weird Talisman
- 13. take cart ride with one rock and the talisman to get aqualung
- 14. Use aqualung to get umbrella 15. Use aqualung to get soggy log
- 16. Light log by fire
- 17. Get empty jar
- 12. Give gold shamrock to Shamus and get 19. Get honey and drop log

- 20. Drop honey by the bear, then while he is eating, jump past to get the bones and pepper
- 21. When the bear's finished get the empty iar
- 22. Use the pepper pot on whale near the right hand side of the water
- 23. Flinners
- **18.** Get umbrella, then with the jar and log, go to **24.** Use pepper pot on whale near left hand side

- 25. Go to Denzil and get ZX81
- **26.** Using aqualung and flippers, get tape from secret chamber
- 27. With aqualung and flippers, use bones on man-eating plant
- 28. Get ring from Daisy and tasty seaweed
- 29. Go to control chamber and plug in ZX81
- **30.** Take hammer down pipe, drop and return
- **31.** Go down the pipe with aqualung and flippers
- **32.** Hit chain off the end of other pipe with the iron hammer
- **33.** Enter pipe and get the fishing net
- 34. Get pillow from Dozy
- 35. Get pretty cloth from behind tile in illusion
- 36. Get ceramic lid, then, with the jar, use umbrella in draft from windy shaft to reach higher clouds
- 37. Use iar to catch firefly
- 38. With aqualung, glowing jar and tasty seaweed, enter spooky cave
- 39. Drop seaweed to get rid of the bats
- **40.** Get glass slipper from Dora
- 41. Use fishing net to catch Pogie and get his
- 42. When you've rescued everyone and given Theo the last five stars he will give you some
- **43.** Use sticks, cloth, string and tape by the top of the windy shaft to make a kite
- 44. Fly up to the sky to get the drill bit
- 45. Fix the drill bit to the weird machine to reach the end screen

- phone and the flea collar

- watering can and Fish spell
- **19.** Use the scissors on the yo-yo. Get the bowl
- 20. Use the can on the mud. Use the Fish spell and fall into the water
- **21.** Take the jelly and give it to the jellyfish
- **22.** Take the detonator and the Explosive spell
- 23. Go as far right and down as you can go use

- 15. Take the hearing spell. Collect the mega- 24. Land on the clouds and collect the candlestick and the Flight spell
- 16. Jump up to the deaf bugler and use the 25. Scare the elves away with the candle and get the feather
- 17. Get the Flea spell and use it on the giant's 26. Use the Flight spell and collect the water pistol, the Cooking spell and the sugar
- 18. Go down the mace and get the scissors, 27. Use the water pistol on the dragon; take the
 - 28. Use the Cooking spell on the gingerbread
 - 29. Take the penny and use it on the well
 - 30. Fall down and take the sunburn lotion
 - 31. Jump over the banana skin and give the lotion to the dragon

sexiog equivevos

so that games can suddenly give you infinite lives, weapons and the like. But how do you know which bits of memory to poke? That's where the Amstrad Action experts come in... maybe one day they'll reveal their secrets, maybe not. In the meantime, on this month's covertape is another selection of dirty little cheats...

SMASH TV & TERMINATOR 2 (BOTH DISK)

Andy (the poke) Price has only done one routine for us this month but it's really excellent - it uses the Earthquake system. (He's presently working on the "Supernova" system which not only sorts out protections, but also vapourises

anything within ten light years...) This is for the disk versions of Smash TV and Terminator 2... he has combined two pokes in one! Smash TV gets infinite lives and Terminator 2 gets invulnerability.

BUBBLE BOBBLE, SWITCHBLADE, BOUNDER, **RENEGADE I, RENEGADE III** (ALL TAPE)

People are always requesting cheats for Bubble few versions in its time, however, and unfortunately the pokes don't transfer from one to another readily! Anyway,

your level. It works on the latest tape version (Hit squad). Also, he includes an infinite lives poke for

Switchblade tape (The GBH version) and a few other tape oldies for good measure; Bounder (infinite lives) and Renegade (the first; infinite lives), and Renegade III (infinite time and lives). All for the tane versions.

DRAGON NINJA, GRYZOR. RENEGADE III (ALL

From the archive spring some all time classic pokes for some all time classic games for disk owners. In Dragon Ninja choose from infinite energy time, lives etc. The Gryzor poke (probably the best game ever on the CPC) gives infinite lives and retained weapons. And the disk poke for Renegade III supplies infinite lives and time. All of these pokes were penned originally by the mighty Mike Wong

Bobble It's been published in a

undaunted, Stephen Matthews of Kings Lynn has supplied a poke for infinite lives which also allows you to select

New Kids Block

1) Load the poke you want from the covertape into your computer. 2) Take out the covertape and put in your game tape or disk.

3) Type | DISC if you are using a disk poke.
4) Type RUN to run the routine (not RUN "" (CTRL+ENTER) as you normally would)

> You should find that the game will load normally, or you will be given instructions on what needs to be done.

Grange Hill: COMPLETE SOLUTION

And last, but by no means least, solution number four is for Grange Hill, from David Hayes Glasgow. Excuse me now while I get my throat around a pint or two of my own favourite type of solution...



- Climb the phone box, go left and jump over the hole in the wall
- Collect the torch and fall off the wall
- Go left and get the fishing rod, then go back
- Go far right and get the telescope
- Go left and down the path, left again, up the ladder and get the history book
- Go back down the ladder and left. Stand on the history book to get the paper plane
- Go right until you reach the chair leg. Pick it
- Go right again to the canal. Use the fishing rod to get the bone
- Go to Rolf the dog and give him the bone
- 10. Go right and pick up the false teeth (don't drop them at any time)
- 11. Go right again and pick up the glass eye
- 12. Drop the history book and then use the paper plane (throw it at the matches)
- 13. Climb over the fence. Go right into the subway and get the dead cat
- 14.Go right, climb half way up the pole then jump across. Go right and jump the hole
- 15. Go right and drop down from the wall
- 16. Go right and use the chair leg to hit the padlock, then drop the chair leg
- 17. Go far left until you reach Imelda and give her
- 18. Go left, jump over the bollards, left again and get the candle
- 19. Go back to the broken padlock (by the same route as before) and right once
- 20. Use the matches to light the candle
- **21.** Go right and down then to the far right room
- 22. Go up the ladder, across to the next room, then up the ladder to the top, then left to below the staff room
- 23. Say "Give me the key" to Hollo. Climb ladder
- 24. Get the Walkman and then go home (Jump over Griffiths, don't just walk past him)



Price READ THIS! Fast 7 day delivery

Select two or more BUDGET games and receive FREE one budget game of our choice

AMSTRAD SELLERS

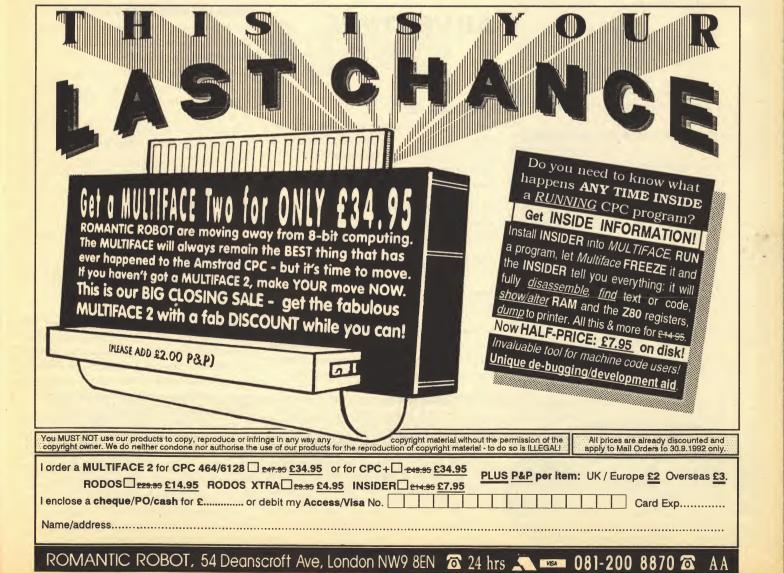
	MIND HOLD LOSE LINES	6033	DISK
-1	3D Construction Kit	£16.99.	£16.99
	Captain Planet	New £8.99.	£10.99
	Chart Attack	£10.50	£13.99
1	Dizzy Cartoons		
H	Dizzy Collection		
1	Dizzy Excellent Adventures		A1/A
1	Dizzy Excellent Adventures	£7.50.	N/A
1	Double Dragon 3		
1	Final Fight	£8.50 .	£11.50
1	Football Director 2	N/A	£9.99
1	Fun School 2 Range	£7.50.	£9.99
1	Fun School 3 Range		£12.99
	Fun School 4 Range		
	Hudson Hawk		
	Jetsons	Now £5 00	N/A
	Lineker Collection	Now £7 00	NI/A
1	Mega Hot - 8 titles		
۱	Mega Fiot - 6 lilles		IN/PA
	Movie Premiere		
П	Ninja Collection		
П	Pitfighter	£8.50.	£12.99
	Potsworth & Co		
	RBI 2 Baseball		
	Rodland	New £8.99.	N/A
	Shadow Dancer	£7.50.	N/A
	Simpsons	New £7.99	£10.50
	Smash TV	New £7 99	£10.50
	Soccer 6		
	Space Crusade	Now \$7.50	610.00
	Super Space Invaders		C11 00
1	Torrigate O		£11.99
1	Terminator 2	£7.99.	£10.50
	The ADDAMS FAMILY		
ı	Too Hot to Handle		
Н	Viz		
1	TNT 2	£8.99.	£10.99
1	WWF Wrestle Mania	New £8.99.	£11.50
1			
-	BUDGET	Dizzy Panic	New £3.99
	3D PoolNew £3.99	Double Dragon	
_	Airborne RangerNew £3.99	Dragons of Flame	Now £2 00
1	Atlantis 4 packNew £3.99	Dragon Spirit	Mew 23.33
-	Auditio 4 pack	Dragon Spirit	New 13.99
	Augie Doggie & Doggie Daddy	Escape from Planet of	
1	DaddyNew £3.99	the Robot Monsters	
1	Batman - The Movie£3.99	F-16 Combat Pilot	
1	BobsleighNew £3.99	Fantasy World Dizzy	£3.99
-	Dubble Debble 00.00	Fred Fred	00.00

Hard Drivin'	Now 63 00	Sny Wh
Heroes of the Lance	Now £3.39	Spy Wh
mpossamole		Strider
ndiana Jones + The La	et 23.33	Strider Striker in
Crusade	New £3 99	Stunt Ca Super C
locky Wilsons Compen	dium £3.99	Super C
limmys Soccer Manager		Super S
lonny Quest	New £3.99	The Gar
ast Ninja 2	New £3.99	Edition.
otus Esprit Turbo		The Mat
Challenge	New £3.99	Tin Tin (
Magicland Dizzy	23.99	Toobin Treasure
Manchester United	.New £3.99	Treasure
Microprose Soccer	New £3,99	Treble C
Midnight Resistance	.New £3.99	Turbo O Turbo T
Moonwalker	New £3.99	Turrican
Aultimix 1	£4.99	Turrican
Aultimix 2	£4.99	Tusker
Multimix 3	£4.99	Vendetta
Aultimix 4	New £4.99	Wemble
Aultimix 5		X-Out
Лyth		Xybots Yogi & T
lavy Moves	New £3.99	rogi & i
Operation Thunderbolt	New £3.99	CALL
Outrun	£3.99	CALL
aperboy	£2.99	
Puffy's Saga	New £3.99	CRED
Puzznic	.New £3.99	00
Quattro Fantastic	New £3.99	02
Quattro Fighters	New £3.99	
Quattro Skills	£3.99	Plea
Quattro Sports	£3.99	
Quattro Power	£3.99	numbe
Quattro Adventure	No C2 00	
Quattro Coin Ops	New £3.99	(==
Quattro Arcade	£3.99	MasterCard
Quattro Combat Quattro Firepower	£3.99	
Quattro Racer	£2.00	
Quattro Cartoon	£3 00	ORDER
Quattro Super Hits	£3.00	coupo
Rainbow Islands		BLOCK
Red Heat	£3 QQ	CAPITA
Roadrunner + Wile E		
Coyote	New £3.99	Nam
Robocop	New £3.99	I
Rick Dangerous	New £3.99	Addr
Scooby Doo & Scrappy	Doo£3.99	1
Scooby Doo & Scrappy Shadow of the Beast	New £3.99	I
Shadow Warriors	New £3.99	
Silent Service		!
Sly Spy	.New £3.99	!
Snooker Management	23.99	
Soccer Double 2	New £3.99	Postc
occer Pinball		POSTC

		- C	V.		6	- 7		
oved Me New £3.99	Please tick boxes as your Tick Box I Wonder Why Sunshine on a Rainy Day KillerOn the Lose Stairway to heaven Stay Love & Kisses Do The Bartiman Dressed for Success Guaranteed How can you expect to be taken seriously She's in love with you For the love of peace	BUSTER ex-cl for 99p - thr, s required and cheque, postal Curtis Stigers Zoe Seal Led Zeppelin Shakespeare's Siste Danii Minoque The Simpsons Roxette Level 42 Pet Shop Boys Jason Donovan PM Dawn Extreme	forw orde	for £1.99 (+) or card to the add or or credit car Crazy for you Dizzy How am I suppo live without you Shoop Shoop so I wanna sex you 20th Century Bo Can't give you m Let's talk about s Can't slev gou in started Give me just a lit more time	25p press bered numers sed to ong up y nore sex ning	Madonna Vic Reeves Michael B Cher Colour Me Marc Bola Status Qur Salt 'n' Pe Bryan Ada Kylie Mino	s otton Badd R & T Re pa pa arms	
CARD HOTLINE 440 4108 state name, card expiry date & goods required	Winter in July I'm too sexy I'm a Man not a Boy You've lost that "lovin' feelin' Nessun Dorma It ain't over til it's over Always look on the bright side of life	Extreme Bomb the Bass Right said Fred Chesney Hawkes The Righteous Brothers Luciano Pavarotti Lenny Kravitz Monty Python UK Mixmasters	0000 0000 0	Black or White Light my Fire Gypsy Woman Faith (in the power of From a distance It won't be long Saltwater Wind of Change Live your life be		Michael Ja The Doors Crystal Wa Rozalla Bette Midl Alison Mo Julian Len Scorpions Belinda Ca	aters ler lyet lyet	0000 0000
DRM AND INFORMATIC and send it to: PRICEBU	DN. All orders sent STER Unit 23, 14/20	FIRST CLASS O George Stru Name of 9	eet,	Birmingham	B12	Just fil PRG puter	l in th	

.Tel. No: .

POSTAGE RATES: Please add 50p p&p on all orders. EEC countries add £1.00 per item. Non EEC countries add £2.50 per item. Cheques payable to: Price Buster



I'm stuck on Shadows of Mordor, I don't know where to find the fishing line needed to catch the fish with. PLEASE HELP!

Nick. 0934 628897

HELP! desperately needed. How do I get out of the house in Boggit.

David, 0737 768337

Has anyone got ADLAN (ROM + disk) to sell for a reasonable price? I have a 6128 with ROMBO Rombox

Adrian, 0743 236914 after 6pm weekdays

Wanted desperately: ANY Infocom games, disk preferably. I also want Fish or Guild of Thieves for either Amstrad CPC or A3000. I will pay a good price or swap for some games. I can give help on Jinxter, Big Sleaze and a bit of

Katharyne, 0481 56915

Help wanted on the following: The Crypt, The Simpsons and Driller. And any cheats on Elite! Terry, 0590 670469

In The Shadows of Mordor, I have got Smeagol on my side and cannot get to the marshes. Can vou please help?

John, 0992 24475

Contacting the Bala

To get in touch with the Balg, write to him at: Amstrad Action, Future Publishing Ltd, Beauford Court, 30 Monmouth Street, Bath AVON BA1 2AP or e-mail at cazsiw@uk.ac.leeds.dcs.

News

A new intro yes please A new intro yes please A new intro ves please A new intro ves please A new intro ves please A new intro yes please A new intro yes pleaseA new intro yes pleaseA new intro yes please

Guild releases new games

Tony Collins of Guild Adventures has been beavering will set you back £4.50 on disk. away at his keyboard to release a whole plethora of new games, Included in the impressive list of new Adventure Software, 760 Tyburn Road, Erdingand converted titles are two compilations, one by ton, Birmingham, B24 9NX (021 749 2585). Alex Gough (Vol. 4) and the other by River Software For tape versions, send an SAE to Peter Knowles (Vol. 5) for the paltry price of £5 on disk.

by Silent Corner. Originally written on the Spectrum, Tony has asked me to point out that although Guild where it has been hailed the "best science fiction" and PK sell the old Recreation Re-creation games game ever written", it is a two-part PAW game which there is no connection with RR!

For more details/price list send an SAE to: Guild

at: PK Graphics, 153 Standhill Crescent, New The other notable game in the list is Captain Cook Lodge, Barnsley, South Yorkshire S71 1SW.

ADVENTURE

LORDING IT

Could you tell me if Lords of Time is part of the Red Moon Trilogy. If so, do you please know of an address I could write to to buy the cassette?

Yep, Lords of Time is part of the Red Moon trilogy and should be available from Level 9 at PO Box 39, Weston-super-Mare, Avon BS24 9UR (0934 814450).

MORE CHAOS?

Is there a Lords of Chaos Expansion Kit 2? Steven Winn

Maidstone

No news on Expansion Kit 2 for Lords of Chaos, unfortunately. In fact, no news from Mythos/Bladesoft/ Target Games at all - they seem to have completely disappeared. Does anyone know where they are?

FIGHTING MAD

I am just writing to say that FF (Fighting Fantasy) games do exist on the CPC and are quite good games in their own right but they are very hard, with outlandish parsers. I think the company that made. them was called Software International and that Adventure International was just their adventure label. **Tony Hutchison**

Saltney Thanks Tony!

MAD MUSHROOM FARMER

Greetings, oh most demonic saviour of the adventure breed. I wish to acquire some information:

1) What happened to the Bards Tale Club?

2) Which adventure creators, apart from GAC, can be used without any knowledge of programming which would you recommend?

3) In AA76 in the GAC compo it says that Adam P gets transported into your lair... but in AA77 it has changed to Rod Lawton - who is it?

4) Would it be possible to give a rough idea of how much the GAC is capable of? I don't want to plan out an adventure with 300 locations if GAC can only handle an average of 50.

5) Is the GAC booklet still available?

May Gadungrick, God of the sacred magical fungi, bless your already mighty forehead...

Fungus Metaliest

(Chief Jester, Mage, Warrior and Adventurer of the Mushroom Plateau)

1) Bards Tale finished in AA71 because nearly all that could be said was said, short of printing a full solution! 2) All require some degree of programming but if you can program in GAC then it shouldn't be too difficult to pick up either ADLAN or GAC. For the addresses of where to get these packages see last month's letters. 3) Rod or Adam - it's up to you!

4) In theory GAC can have up to 9999 locations but memory constraints stops this. It all depends on how much memory you use on descriptions, pictures and puzzles but to be honest GAC isn't up to much - you're best bet is to experiment yourself as to its limitations.

5) Yes, there are lots left. You can order a copy by sending £2.99 (no cash, please - cheques/postal orders only) to: Amstrad Action GAC Booklet Offer, Future Publishing, Somerton, Somerset TA11 7BR.

GAC programming dinie

If you have any questions about the use of GAC, specific GAC-related problems or queries or hints and tips of your own then jot them down and send them to: Balg's GAC Programming Clinic, Amstrad Action, Beauford Court, 30 Monmouth Street, Bath, Avon BA1 2BW,

Q: How do you have two pictures of, say, a tunnel - one if the torch is lit and the other if it isn't? John Reilly, Barnstaple

A: Ummm... that's a toughie. There are two ways to do this: the first is to have two identical rooms with different pictures (but this is very greedy on memory). The second is to use control codes as shown in AA58.

Control codes can be incorporated into a game's room or message descriptions. These control codes are listed in chapter 9 of the manual. Letter them starting at 1="A", to 26="Z" then 27="[", 28="\", 29="]", 30="\", 31="0" to make reference easier. For example:

CTRL	+ Variable	Note	BASIC equivalent
D	n	Change screen mode n=0-2 (GAC	MODE n
		still uses 40 columns though)	
G		Bell (Beep!)	PRINT CHR\$(7)
H		Move cursor left 1 character	PRINT CHR\$(8)
I		Move cursor right 1 character	PRINT CHR\$(9)
J		Move cursor down 1 line	PRINT CHR\$(10)
K		Move cursor up 1 line	PRINT CHR\$(11)
L			CLS
N	n d	n=Paper number 0-2	PAPER n
0	n	n=Pen number 0-3	PEN n
Χ		Inverse video on/off	
1	n xx	n=Pen number	INK n,x,x
		x=letter representing a colour	
		(appendix B of GAC manual, two	
		different X\s mean a flashing	
		colour.)	
]	XX	Set border colour	BORDER X,X

For example, 'CTRL-L, space, rest of message...' will clear the window (code 12) and print a message.

You can also change colours with these, although I would suggest setting up a sequence to reset colours to normal in case of error - if this happens you won't be able to read the menu or anything else! You can do this by setting up a 'dummy' room with the following codes:

INK 1.24 PEN 1 BORDER 1

• Note: These are all typed with 'CTRL' pressed, except the zero which is typed on its own. The codes should be contin uous; I have separated them to show what each section does.

You can now experiment with the codes. For example, at the beginning of a room description, you can change colours, make a beep, etc. If the colours go wrong, press ESC until the menu screen, press 'B' for beginning room, delete old start room, and type the number of the dummy room, 'ENTER', 'ENTER' to start game, and the colours will return to normal. Thus you can change the colour of the picture of the tunnel - have very dark pictures for no light and normal pictures for a lit room.

O: I want to be able to have a built-in map using an unused room to hold the picture, pressing M to show the map and another key to return to the adventure. Can this he done?

A: Yes but it would be very wasteful on memory and complicated. You'd have to have a different picture for each stage of the map, with the M key using the GOTO command to send the player to that room and a RETURN command which would use the GOTO key to send you back to the location you came from. You could save on memory by merging pictures of the maps together but it would still use up a lot of memory.

Q: How do you arrange to have characters which wait for you to give them something or to do something for them.

Brendan "Legolas" McGoldrick Strabane

A: Just write a routine for it! For example put in the low priority conditions the line 'GIVE MONEY', check to see if the character is present (by setting it up as an object and using the HERE command) and then print a message (e.g. Thanking you for the money, the bus conductor runs

O: In the text in the February tutorial, after message 3 (which is OK) local room condition, room 2 ok then asks "Which line number?", nothing seems to answer this and if a number given at random and "IF (VERB & SET? 3) GOTO 1. WAIT END" is typed in. the machine answers "Don't understand" and reprints it! Also shouldn't this condition be low priority? D S Anthos

A: You should start at line number 1. The machine is responding "Don't understand" because the line you are typing in is not syntactically correct - it should be "IF (VERB 4 AND SET? 3) GOTO 1 WAIT END". This is a local condition as it only applies to one room - you don't want verb 4 to always send you to room 1 so you make sure it only applies in room 2

GAC COMPETITION ENTRY FORMAT

A lot of people have written asking for what they should send with the GAC games they write for the competition. So here they are - the full compo rules!

- 1. The game must be GACed (It is a GAC competition after all!)
- 2. It must be one part only (the covertape won't have room for a multi-part 5. It would help if you sent any relevant instructions. game, it would take up too much space)
- 3. You can send your game on a tape or disk (although I'd prefer the game any clever puzzles, amusing responses or strong points. on disk), but if you want your game back you must include a stamped self 7. Don't forget you can also mark your game as PD if you'd like Debby
- 4. You must send a solution and map with your entry (I can't be expected to 8. Remember don't send your games yet there's no rush!
- play hundreds of GAC games without any help!).
- :6. It would also help if you wrote why you feel your game is good outline
- Howard of Adventure PD to stock the game if you're not the lucky winner.

The Wacci Page

Head Wacci dude CLIVE BELLABY brings us another round up of news, views and technical tit-bits from the twilight world of SERIOUS computing on the CPC...

DOES THE GREAT ROMDOS SAGA END HERE?

As promised last time, here's the source code listing for our Art Studio poke. It was written using Protext and MAXAM 1.5 but should be OK for most assemblers. This code links directly to last month's program - so you'll need to reread AA82 (or send off for a back issue if you don't have it) to know what's happening. (And why!)

JP MC_START_PROGRAM

Art Studio Loader f	or ROMDOS	
;(c) Jess Harpur 199	2	
romdos	equ 1	;Romboard slot number occupie ;by Romdos
copykey	equ &E0	;Value returned when COPY key ;pressed
KM_READ_CHAR	equ &BB09	;The Firmware Calls
KM_WAIT_KEY	equ &BB18	
KM_READ_KEY	equ &BB1B	
TXT_OUTPUT	equ &BB5A	
CAS_IN_OPEN	equ &BC77	
CAS_IN_DIRECT	equ &BC83	
CAS_IN_CLOSE	equ &BC7A	
SOUND_RESET	equ &BCA?	
KL_INIT_BACK	equ &BCCE	
MC_START_PROGRAM	equ &BD16	
MC_WAIT_FLYBACK	equ &BD19	
OLDCOM	equ &BF08	;A safe place to store ;km_read_key
TESTKEY	equ &BFOB	;A safe place to put the new reading code
		10001113 0000
org &9000		:A safe place to put the load
.,		; code
ld hl,filenam		;Point HL to start of filenam
ld b,10		;Put length of filename in B
ld de,&800		;Point DE to start of file
		;buffer
call CAS_IN_OPEN		Open the file
jp nc,0000		;Reset computer if there's an
14 11 0000		;Put load address in HL
ld h1,&800 call CAS_IN_DIRECT		;Load the file
jp nc,0000		:Reset computer if there's a
JP IIC, 0000		error
call CAS_IN_CLOSE		;Close the file
; ld hl,(&BE7D)		;Get address of disc rom
IN HILLMDEID!		;workspace into HL
1d a,(h1)		;Get current drive (0=A,1=B)
AW W/ 1214/		,

;		
patch	ld hl,&ABFF	;Define limits of free memory;
		;highest in HL
ld de, &40		;and lowest in DE
ld c.7		;Put Disc Rom's select number in
		;C for
call KL INIT BACK		initialise Disc Rom
1		,
ld c.romdos		:Put Romdos's select number in C
,		for
call KL_INIT_BACK		initialise Romdos
1		,
db &3E		;(Hex &3E,? = ld a,?)
drive	ds 1	;Put current drive in A (stored
41.146		;here previously)
ld hl.(&BE7D)		:Get address of disc rom
14 111) (402107		:workspace into HL
ld (hl),a		:Restore current drive setting
iu (117, a		The source out tells at the severing
ld h1,KM_READ_KEY		:Point HL to firmware jump block
IN NI'NHTHENT VEI		entry
push hl		:Save it on the stack
ld de.OLDCOM		:Point DE to our storage
Id de, VLDCOM		:location
11 1 - 0		:Number of bytes to move into BC
ld bc,3		
ldir		;Move them
1		Park and MY and a factor to form
pop hl		Restore HL as pointer to jump
		;block entry

ld (hl),a		; Restore current drive setting
; ld hl.KM_READ_KEY		:Point HL to firmware jump block
		entry
push hl		Save it on the stack
ld de, OLDCOM		Point DE to our storage
		:location
ld bc,3		:Number of bytes to move into BC
ldir		:Move them
1		
pop hl		Restore HL as pointer to jump
• • • • • • • • • • • • • • • • • • • •		;block entry
ld (h1),&c3		:Put a JUMP instruction into
		jump block
1		
inc hl		;DE points to exec. address
		;(testkey) of new
ld (h1),e		;key reading code after the LDIR
	~	;instruction
inc hl		;so poke the address into the
		;two bytes after
ld (h1),d		;the JUMP instruction
}		
ld hl,zbreak		;Point HL to storage location of
		;new code
ld bc,ptchend-ptchcod		;Put length of new code into BC
; (DE still points to	execution add	
ldir .		;Move key reading patch into
		;correct position
1		
jp &0986		;Jump to STUDIO.BIN avoiding
		; calls to &BD16 and
; &BCCE		
1		
zbreak	equ \$;Location marker for use by
		;Maxam assembler
; -	An a Stinii	1 Thomas House to me t
org	IESTKEY, zbre	ak ;Instructs Maxam to produce
		;object code which will execute
		correctly at testkey, but to

WACCI - The Club

WACCI is a CPC user group with over 400 club members. It produces a 32 page, 27000 word monthly magazine covering diverse topics like programming reviews of software, members letters and comms. WACCI costs £1.50 per issue: for a sample copy send a 34p stamp and your name and address to WACCI, 12 Trafalger Terrace, Long Eaton, Nottingham, NG10 1GP.

 Club membership continues to steadily grow as more and more users are turned on by the more serious side of computing. The public domain library also continues to expand and it now has over 40 discs full of software. (The biggest growth area has been MicroDesign pictures and clip art we now have 11 disks full of pictures.)

:Save contents of those

	pusn nc		jave concents of those
			registers
	push de		;which the call to sound_reset
	push hl		will corrupt
d	1		,
-			:Put ASCII code into A
	ld a,7		
	call TXT_OUTPUT		Print contents of A register -
	7 sounds beep		
	;		
	flush	call KM READ	_CHAR ;Get a key from the
ck			;key buffer
	ir c.flush		:Go back and get another if
	Jr c, ilusn		
			;there was one available
	;		
	ld b,25		;Make B a counter
BC	delay	call MC_WAIT	FLYBACK ; (Flyback occurs 50
			:times a second)
	d.inz delay		:Repeat until B=zero
,			,
	;Results in a delay of	approx. nai	1 a second
	1		
	call SOUND_RESET		;Stops all sound output
	1		
	retry	call KM WATT	_KEY ; Waits for a keypress!
	11413		;Returns key in A reg.
			The corns wed in a real
DIR	1		0.31 -1 -1 0.808 0 1
\Tu	sub "0"		;Subtract value of "O" from key
	in A register		
	jr c,retry		;If key in A was less than "O"
			then try again
	1		,
	cp 10		:Check if key in A was greater
of	Ch 10		
01			;than "9"
	jr nc,retry		;Try again if it was
BC ·	;		
	ld hl, (&be7d)		;Get address of disc rom
			workspace into HL
	inc hl		:Point HL to location of current
	1110 111		:User Number
	ld (hl),a		;Poke the selected User Number
	;		
	pop hl		;Restore registers
	pop de		
	pop bc		
	1		. D. A ACCTT and a few Commis-
	ld a,13		;Put ASCII code for Carriage
ce			;Return in A
te	1		
	exit	scf	;Set carry flag to indicate key
			:available
	ret		:Return to Art Studio
	Ler		, nevarii co ni o scauto

By Jess Harpur, Campursoft & WACC

News & new products

call OLDCOM : Call KM READ KEY

;Return if no key available

so check if it is the COPY key

daily (it seemed) loss of quality Amstrad CPC-orientated companies as they've packed up their bags and moved into the more lucrative Amiga, Atari and

and poke it into code below

:Point HL to start of poke

Jump to firmware routine

(Resets machine and runs

:Put rom selection in C

ret no

:The keypress is held in A register

This trend seems to have ended as new companies have sprung up to fill the gaps left in the market place. Even as we speak, news is filtering through of many new products.

There will be a brand new version of MicroDesign out around Christmas, for a start, It is a complete re-write of the original and will have full page processing facilities as well a full art package. Estimated price around £40.

Campursoft is also (it would appear) arranging for the manufacture of a generic MP2 TV modulator and a brand new RGB to SCART conversion system! Also on its way, a 24 pin printer driver for the

MicroDesign package, written and supplied by

Also coming - a replacement RS232serial interface from Siren software (which will be bundled with a Modem and software later this year). Look out for

This list of new product is endless - except, of course, I've ended it, 'cos we're out of room

ADVERTISERS INDEX

	Avatar	24
ı	Brunning Software	18
	Commodore	11 13
	Datel Electronics	
١	ERC	
	GVL Bagsform	7
	Instamec	43
ĺ	MJC Supplies	IBC
	PR Freedman	39
I	Romantic Robot	
ı	Siren Software	43
ı	Trade-in-Post	
	Ultra Software	
	W.A.V.E.	
ı	WTS Electronics	
ı		

Did you know **AMSTRAD ACTION**

is the only Amstrad magazine with official circulation figures? 37,120 ABC. Imagine that many people replying to these advertisements!

Call Alison or Jackie now on: 0225 442244

NO NONSENSE DISK DRIVE.....



Our stylish 3.5" disk drives are the only ones available that will enable you to use 800K per disk WITHOUT the need to adjust any manual side select switch.

Other drives on the market will only enable you to access 400K at a time, whereas our disk drives come complete with either the RAMDOS or ROMDOS operating system that allows a full 800K to be accessed

Our disk drives come complete with an external power supply & can easily be connected to another computer by simply changing the connecting lead.

We use a top quality SONY drive mechanism that is world renowned for its reliability & performance.

Included with the disk drive is a disk full of Utility software. This includes RAMDOS, a RAMDISK drive program, a SECTOR EDITOR, a DIRECTORY EDITOR, a FAST FORMATTER etc.

3.5" DISK DRIVE (INCLUDING RAMDOS FREE) ONLY £74.99

3.5" DISK DRIVE, ROMDOS & A 6 SOCKET ROMBOX ONLY £99.99

All prices include VAT. Please add £5.00 P+P

SIREN SOFTWARE, Wilton House, Bury Rd, Radcliffe, Manchester M26 9UR Tel 061 724 7572. Fax 061 724 4893 Access VISA







AMSTRAD REPAIRS

SICK OR POORLY AMSTRAD DON'T DESPAIR CALL TODAY FOR A

· Highly skilled and experienced

Technical support help line Send your computer today enclosing

CPC 6128

(If disk drive is beyond repair there will be an additional charge of £25 for

TEL 0733 390707 UNIT 31 • WORKSPACE HOUSE • 28/29 MAXWELL ROAD •

PETERBOROUGH PE2 7JE

COMPUTER REPAIRS



* AMSTRAD AUTHORISED *

Quality Assured!

* Fixed price repairs on many machines

★ Over 2500 square foot engineering complex ★ Top quality technicians at your disposal

* All work warranted Fast turnaround

Simply post or hand deliver your machine and we will do the rest

WTS Electronics Ltd reserve the right to refuse machines that in there opinion are beyond reasonable repair.

Amstrad 6128

Colour monitor

£37.00 £41.00 (extra if disk drive

needs complete replacement) £15.00 Diagnostic charge

Please supply evening and daytime telephone numbers

Tel: 0582 491949 (4 lines) WTS Electronics Ltd, Chaul End Lane, Luton, Beds LU4 8EZ



OD LAWTON

like that spot 60 yards rom the zebra crossng, near **Boulogne** locks, where I spotted a really nice plastic oag. It was gone when I came back though, so I don't like France any



DAM PETERS

My favourite French place is the town of Marseille. I once fell asleep on a coach and woke up there. That's where I bought this excellent sweatshirt. t's really nice, isn't it?



My top place in France s Segrier in the Ardesch region, I used to live there when I was ittle. It's really nice. There's a river running through it, and lots of lovely French



My favourite place in France is the beautiful and picturesque seaport of Kingstonupon-Hull. (Er. Hull's not in France Adam – ed.) It isn't? Oh. All right, Grimsby then, But prefer Hull.



ALISON MORTON

Paris is my favourite Gallic town. I admire its cultural and artistic heritage and beautiful Napoleonic architecture. Most of all, though, I like it because of the onion soup you

In a change to the advertised program, ADAM PETERS presents news of changes in AA's games coverage, the dates of a couple of computer showsdetails of where you can buy cartridge games, and a chance to win some safe American Football stuff. Nyeeeow...

CH-CH-CHANGES

Next month sees a big shuffle of our games content. Action Test goes to the back of the magazine, where it links up with Cheat Mode and an extended Action Replay. This will create a '16page game section' at the back of the mag, which we hope will be an improvement on the current situation

where related sections are often several pages apart.

Action Replay will be extended to give us even more space to cover the mass of budget re-releases coming out at the moment. Games like Nightbreed. Cyberball and International 3D Tennis get a detailed going CLINK! Cheat Mode gets intimate with the games reviews. CLONK! Er... There's a few more

changes to the section as well, but we can't reveal these at this stage...

Cheat Mode pitches in at four pages, with a new requests section and much more. Action Test itself gets brighter and briller than ever before. Grapevine also undergoes some changes, and look out for our new Action Zone section.

The new 'games section' and Action Zone spread both start in next month's issue.

CARTRIDGES AHOY!

A few months ago we asked you to write in with lists of any cartridge games you were trying to get hold of and said we'd do our best to

locate a source. Well, 117 of you wrote in and every single cartridge got a mention (apart from Burnin' Rubber which everyone should already have). The most

popular was Robocop 2 with 20 votes, the least popular were No Exit and Tintin on the Moon with one vote apiece.

We put out some feelers and managed to come up with a reliable source that holds stocks of around half the CLUNK! Action Replay rockets in size. address you'll want is: Denise Williams, The User Group, PO Box 10, Roper

Street, Pallion Industrial Estate, Sunderland SR4

The games they stock are as follows: Barbarian 2. Batman - The Movie, Crazy Cars 2, Epyx World of Sports, Fire & Forget 2, Mystical, No Exit. Operation Thunderbolt, Pro Tennis Tour. Robocop 2, Switchblade and Tintin on the Moon. Of these, Robocop 2, Switchblade and Pro Tennis Tour are the best. No Exit and Mystical are worth a mention because we didn't think they were avail-



■ You want to know where to get hold of games for one of the balls for ourselves) most the GX4000? Well we know but we're not telling. Oh all right then, see Cartridges Ahoy for details.

able on cart in the UK.

These games have a recommended retail them for only £19.95 each, including VAT and postage. Stocks are limited though, so it's best to ring Denise on 091-510 8787 before sending off

If anyone else knows a reliable source for cartridge games, drop us a line here at AA and we'll pass the info on.

TOUCHDOWN

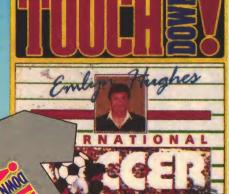
Gadzooks, a new budget re-releases label! Touchdown is an offshoot of the full-pricer Entertainments International, and they make their debut on the CPC with the absolutely scorching Emlyn Hughes International Soccer (AA's second favourite footie game of all time).

To celebrate their appearance on the scene, and to tie in with the American Football angle of their name. Touchdown have given us (and about every other magazine in the world) 15 excellent grey T-shirts and 15 mega-fab squashy toy green rugby balls. These really are dead funky and tasteful and we want to keep them, but they won't let is. "Do a competition for your readers and offer them as prizes," they say.

Okay, here's the question: ou know how American football teams have strange names (Ohio Elephants, Seattle Laser-Cannons etc). Well, if you were to set up a US football team in your home town/area, what would you call it? And why? Write to: Touchdown Compo. Amstrad Action, 29 Monmouth Street, Bath, Avon BA1 2DL. The senders of the 15 (or probably 14, 'cos we want to keep amusing, clever or libellous entries will win a T-shirt and one of them ace little

squashy balls. Closing date: August 31st.

price of £25.52, but 'The User Group' are offering Out now: Emlyn Hughes International Soccer



■ T-shirts and balls to be won, ace footie games to be bought. You know the score.

(Touchdown), priced £3.99 cassette.

5 Lemmings Psygnosis Mini Office 2
Europress Software

CodeMasters

CodeMasters

The Charts

This chart is compiled by Gallup Ltd.

Publishers' Association Ltd. 1992)

FULL-PRICE

WWF Wrestlemania

Adventures C'Masters

Cartoon Collection

Dizzy Collection

Dizzv's Excellent

(© European Leisure Software

7 Big Box Beau Jolly

Space Crusade Gremlin Graphics

Terminator 2 9 Ocean

The Simpsons
Ocean

BUDGET

Bubble Bobble Hit Squad

New Zealand Story Hit Squad

Magic Land Dizzy CodeMasters

Robocop Hit Squad

1st Division **Manager** C'Masters

Quattro Skills CodeMasters

Panic Dizzy

Double Dragon 2 Tronix

The Match D & H Games

Dizzy down the Rapids CodeMasters

The Word Is Out

games to try out, and much more. They're fab, and you and receive any gifts you wish to bestow. this autumn there's two biggies on the way. There's More info nearer the time... the. Gamesmaster Live event at the NEC in Here's an interesting little titbit for you, pun-Birmingham from December 4th-6th, organised by ters: you know that Viz magazine, right? You know EMAP (publishers of CVG) in association with the that it's spawned a whole bunch of other maga-Gamesmaster TV show.

The Birmingham event will be focusing on Sega those magazines, Gas, is actually published by and Nintendo machines, but this year's other big show Alternative Software, the 8-bit budget house will be covering all formats, including the 8-bits.

The Future Entertainment Show will be taking lot of people know that. place at the Earls Court Exhibition Centre from November 5th-8th, to follow on from last year's World seem to be giving up on doing Amstrad versions of Commodore show. The event is being organised by of games, claiming that there is no market left.

zines (Ut, Zit, Acne etc)? Guess what - one of behind such cutesie titles as Postman Pat 3. Not a

Interesting fact number two: software houses Future Publishing, the people behind Amstrad Action, Yet compare the sales of Amstrad software with

years the softies have been talking about the boom in the PC leisure industry that is on the way, yet it seems clearer and clearer that it's just not

going to happen. Meanwhile, they've been busy ditching popular machines like the CPC. Berks.

Bad news ahoy! After months of procrastinating, and lots of umming and ahhing, we've learnt that Ocean aren't going to produce either

the sales of PC software, and what do you see? cartridge, but it seems to have been decided that this You see that Amstrad games are out-selling was unfeasible. The (silly) idea of producing Robocop IBM-compatible games by a factor of five to 3 on 6128+ only disk has also been scrapped, and two. And this with so little CPC stuff available, now neither game is going to appear in any form. Gah! and such heavy promotion of PC stuff. For four Ocean don't have any other CPC releases planned at

Europress, the publishers of the Fun School educational series, are releasing a new educational series, Adi, on the 16-bits this summer. There's no word on a CPC release vet, but we saw lots of Adi packages available for the CPC in France

(see this month's feature on Boulogne), so there must be an outside chance.

And that's about it for this cycle of the moon (or whatever a month's supposed to be). More facts and Space Gun or Robocop 3 on the Ammy after frivolity next month readers, in the only video games all. The games were due to be appearing on gossip column in Britain that isn't afraid to end in mid-

ACTION -AUGUST 1992

making a game of it PART FOU

code & chips

Last month we featured part three of our How a Game is Made series. This month, in a controversial move, we're going to feature part four. As ever, it's ADAM PETERS tapping the words in...

Computer games programmers fall roughly into two categories. There's the shy and withdrawn sci-fi geeks who go for weeks without ever speaking to anyone, and have 'computer programmer' stamped on their foreheads. Then there's the totally ordinary types whose profession you wouldn't be able to guess, even if they passed you in the street waving a copy of PDS (Programmer's Development System) in the air.

Jon Cartwright is definitely one of the latter type. A jolly, laughy, cheery young lad who the rest of the Big Red posse get to make phone calls for them ('cos he's good on the phone, like). Like most programmers. Jon uses PDS on the PC to write the code. Once assembled on the PC, the code goes 'down the line' (via an RS232 comms interface) into

The games are usually written on the Spectrum first though. Both the PC and the Speccy are permanently switched on, with Jon hopping from one to the other to test out if the animations and so forth are working

An average Big Red game for the Amstrad will consist of around 96K of code, including extra frames (eg loading screens). The vast majority of this is taken up with graphics, with only about 2K for the 'map' (which specifies what sprite goes where) and another 2K for the sound (title tune and in-game effects). The actual program (the bit which pulls everything else together) is usually only a few K big.



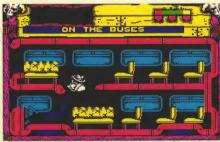
■ Hurrah! It's the Big Red Software big red bus. But who's that asleep under it?

Spot the Difference



The first level of Seymour's Wild West, as we've said a dozen or so times, is full of in-jokes that people not on the Codies pay-roll won't understand. There are a few sprites of CodeMasters staff lurking around too, including one of our pal Rich Eddy. See above, but which is the sprite and which is the photograph.

Three months have been set aside for programming Seymour's Wild West, though Jon hopes to finish it a lot sooner. "The bare bones of it should be finished in quite a bit less. We then have to spend time making the map look pretty, getting the scrolling smooth and sending it away to be



It's the inside of a bus, so where are the

old ladies and screaming kids?

I'm in Sheffield, I don't know why I'm here. Rod and Ange just bundled me on a train to Sheffield, without throw, they are also responsible for the best-selling explaining what they wanted me to do there. They Hanna Barbera Cartoon Collection compilation pack. also seem to have tied my hands behind my back and

Hi-Tec Software, they're based round these parts. tape releases, they have experimented with a mid-They are, if you remember, one of Britain's leading budget houses. Most of their games are based round Potsworth and the dire Jetsons). The company has cartoon characters, licensed from Hanna Barbera.

playtested."

Work starts with 'grabbing' in the sprites (frames for animated characters, backgrounds etc) that Pete has designed over the past couple of months. Map editing is the next stage, where a rough approximation of the map is put together. Jon needs to make sure that Seymour can move from screen to screen unhindered. Initially most screens will just consist of the floor and a couple of objects in the room. More detail is added as everything else (the animation, puzzles etc) comes together.

Once the game is programmed on the Spectrum, converting it to the Amstrad only takes about a week (!). The two computers use the same (780) chip and there is a special program to convert the graphics. Extra colours are added, and a little igging around is necessary to suit the CPC's screen format, but it really is that quick and easy.

As we've mentioned earlier in the series, Wild West is to be broken up into separate sections (or 'Acts'), each a separate game in itself. There will be five acts, though only the first two have been fully planned out at this stage. Both consist of eleven rooms, with some extra graphic bits in-between. Another act, the so-called 'train level', is only going to be six screens in size.

A problem that Pete was mulling over when this series began has now been solved. The Seymour sprite has been re-sized, and made wider so the cowboy hat can be fitted on. There was talk of pos-



Al's shed. Who's Al, then? Er, he's the CodeMasters gardener actually.

As well as individual, original titles at £3.99 a

They've published a fair few non-licensed titles too, though, including this month's stonking centre Who can I get to untie me? I know, I'll drop in on pager Turbo the Tortoise. As well as standard £3.99 range price of £6.99 for a few releases (the brill recently encountered a few financial difficulties, which



■ Pete Ranson proudly shows off a draft sketch for the Seymour's Wild West inlay. "We want camp stoves dangling from the sides of the wagon, loads of arrows and all that."

sibly having a separate sprite for the hat, but that would have slowed things down a lot. Having a bigger single sprite seemed the best solution.

But what about problems that are still to come? Jon reckons that the hardest thing is going to be trimming down the animation. "There's 255 frames of animation at the moment, which is a hell of a lot."

The problem-solving continues, but so too does the innovation. As well as speaking, Seymour is also going to start thinking. Thought bubbles will appear above his head, "He can start being sarcastic," enthuses Pete, "and the other characters won't be able to hear what he says."

There are no time limits in this game, in the way do better than that, Jon? there were with Seymour Hollywood, but something complicated involving a town hall clock is being planned. Progress is marked by the passage of a dot (representing Seymour) across a map of the USA at the top of the screen.



■ The Codies office, personned by receptionist dude Clare. Loads of dialogue ahoy!

Seymour, causing him untold unpleasantness along the way. The showdown with El will provide the game's grand finale.

There's no How A Game Is Made next month, but we rejoin the posse in two months to find out how the programming is going and how the artwork on the inlay cards is put together. You'd be a softboiled egg to miss it.

We'll leave the last words this month, though, to Pete Ranson and Jon Cartwright, Tell us a secret. each of you. Pete first: "I buy colouring books from Sainsbury's to relax. I get a new one every lunch time." Hmm, not much of a secret really. Can you

"Yeah. I can't play these Seymour/Dizzy games. I'm not clever enough. I tried to play Seymour goes to Hollywood but gave up." Crikey, and he's the programmer! "You're not going to print that though, are you?" Er... no. Of course not. Us? We'd never do Some evil person called El Bandito will be trailing anything like that. No way. Er...



the whole shabang, one Jon Cartwright.



it is currently endeavouring to sort out.

I was going to ask them about this, as well as about any future releases they've got planned. Unfortunately I didn't get the chance. They dumped me on the first train back to Bath, without even untying me or removing the gag. What a wacky bunch.

■ A small selection from the Hi-Tec stable. Scooby Doo & Scrappy Doo rated as the one of the best games of 1991 (at any price).

Red Guide to Producing a Game

So what are the stages in which a game is programmed and put on sale? We locked the Big Red Three and Codies PR dude Richard Eddy in a cupboard until they told us.



■ Fred Williams, Pete Ranson and Jon Cartwright: the Big Red posse pose.

1) GAME DESIGN Have an idea for a game down at the pub. Have a few more ideas about what should

2) USE OLD MAP Drop the new sprite (Seymour with hat) into an old game (Seymour goes to Hollywood) and let it walk around a bit.

3) NEW GRAPHICS Design some new graphics, using previous graphics (Seymour Hollywood) as a base.

4) WRITE SOME DIALOGUE Knock up lots of speech for the characters to interact with. Pete: "We're going to have to trim down the speech. Clare the receptionist just yaks and yaks, you can't shut her up." (Er, the sprite that is.)

5) NEW PUZZLES Chuck in all those tricky little puzzles to tax the minds of the punters. Pete: "We put in all these puzzles we think are really difficult, and still people manage to solve them. It never ceases to

6) ADD THE ANIMATIONS Some animations will be the same as earlier incarnations (Seymour Hollywood again) but there will be some new ones too. The game genie hovering, for instance.

7) GET IT PLAYTESTED Send it back and forth to the playtesters, making changes where necessary to iron out all those little bugs and get the difficulty

8) DESIGN A COVER Creative Director Shân Savage sorts out a snazzy illustration for the tape inlay.

9) SELL IT Distribute loads of copies to shops around the country, cross your fingers and hope everyone likes it and it sells like hot bananas.

10) GO TO THE PUB Try and think of an idea for the next game while you're down there.

softie spot

We've thrown Adam on a train and sent him to Sheffield...

gagged me. Strange people.



Free covermounted tins booklet. Turrican 2 and Thunderiaws demos on the covertage, Budget DTP program and Robozone reviewed nlus Ocean's Plotting on cart.



ISSUE 78 • £2.50 Space Crusade demo on the cover tape, plus The Sphinx Jinx and Shockway Rider (complete games).

ISSUE 79 • £2.50 New-look issue. Technical Forum section starts. Ranarama and Maze Mania on the covertape. Blues

SORRY SOLD OUTLISSUES 1-54, 56-61

ISSUES STILL AVAILABLE

ISSUE 66 • £1.60 How to beat games. North & South reviewed plus Robocon II on the consolel Plus Fun School 3 ISSUE 67 . £2.20 Part one of our DTP special. Boxed covertage includes full versions of Dizzy and Hydrofool, plus a playable demo of Total Recall.

ISSUE 68 • £2.20Four Mastergames! Total Recall, F-16 Combat Pilot, Bat and Switchblade. Plus packed covertape. ISSUE 69 • £2.20 Arnor's Protype reviewed, Nightshift, Navy, Prince of Persia, Dick Tracy, Predator 2 and much more! ISSUE 70 • £2.20 Pang reviewed and budget section begins. Plus Donald's Alphabet Chase, Tearaway and Shadow Dancer



ISSUE 74 • £2.50

Turtles 2 demo on

the covertage plus

games. Brand new

two complete

buvers' guide

DL900 24-pin

Final Fight

printer reviewed

Ferminator 2 and

ISSUE 75 . £2.50 Two full games on the covertage, plus a playable demo of 'Cisco Heat. Equinoxe music program reviewed. Smash TV, Turtles 2 and bargain 3.5inch disk drive pack



ISSUE 80 • £2.50 Stryker and the Crypts of Trogan a budget game which uses the cartridge hardware of the Plus! (Demo on the covertape) New game is made, plus



ISSUE 76 • £2.50 Southern Belle on the covertage, plus Graphic Adventure Creator, DTP software, extended BASIC & games pokes! Dizzy's Adventures & The Simpsons on test



ISSUE 81 • £2.50 Fanzine special: what they are, how to produce them, the best DTP progs and more. Addams Family demo plus Forbidden Planet on best French soft-



football forecaster and fonts for DTP. Paperboy 2 and WWF reviewed, plus special feature on the French CPC



ISSUE 82 • £2.50 Addams Family and Bonanza Bros reviewed. DTP program PowerPage on the covertage and playable Lemmings demo. Buvers Guide to art

Issue 71 • £2 20 Hero Quest and 3D Construction Kit demos plus Devpac assembler! Turrican 2 reviewed and Fun School 3. ISSUE 72 • £2.20 3D Construction Kit, Power Up. Database on the

UK PRICE **Original cover price OVERSEAS PRICES** Europe £5 Rest of World £7 Postage & Packing £1 per order*

*reaardless of size of order

a brilliant birthday present! Subscribe 1

FREE when you subscribe - choose any one of these three packages...

MY M

worth

£12.99

Database Software's excellent educational programs can now be yours FREE when you subscribe to AA. Choose from one of three packages: under-5s, 5-7s or over-7s.

Cassette only

Complete the coupon and return it today. Alternatively, call our Credit Card Hotline on 0458 74011

NO-RISK

You can cancel your subscription at any time in the future and we will refund you in full for all unmailed issues.

You just can't lose out!





All subscribers automatically get a monthly Subs Club newsletter

Free Software

Free Delivery

of your favourite magazine,

when you subscribe (or

resubscribe!)

every month

PLUS you get complete INFLATION PROTECTION for a year AND you GUARANTEE never missing a copy of AMSTRAD ACTION!



YES! PLEASE ENTER/RENEW MY SUBSCRIPTION TO AMSTRAD ACTION AT THE ALL INCLUSIVE PRICE OF TICKAS APPROPRIATE ☐ UK £29.95. ☐ EUROPE £47.25 REST OF WORLD £63.10 To ensure you receive your magazine and tape quickly and undamaged, all overseas subscriptions are sent Air Mail MY CHOICE OF GIFT IS TICK YOUR CHOICE LES STARS FUN SCHOOL 3 ☐ under-5s ☐ 5-7s ☐ over-7s CHEETAH BUG

ETH	IOD OI	F PAYMEN	IT IS TIC	CK YOUR CHOICE	TOTAL PAYMENT	£		
SA		ACCESS	CARD NO				EXPS	HEQUE Make payable to Future Publishin

□ VI

Enclose this coupon (together with your cheque if applicable) in an envelope and send to: AMSTRAD ACTION SUBSCRIPTIONS, FREEPOST, SOMERTON, TA11 7BR.

If you are an existing subscriber please quote your subscription reference number here - you will find this on your address label

NB: YOUR SUBSCRIPTION WILL BE PROCESSED IMMEDIATELY BUT PLEASE ALLOW 28 DAYS FOR THE DELIVERY OF YOUR GOODS. THIS COUPON IS VALID UNTIL 31ST AUGUST 1992

AA/MAG/0892

BACK ISSUES ORDER FORM

METHOD OF PAYMENT (tick the appropriate box) ☐ Access

☐ Cheque (payable to Future Publishing Ltd.)

Enclose this coupon (together with your cheque if applicable) in an envelope and send to: AMSTRAD ACTION BACK ISSUES, FREEPOST,

Please send me the following back-issues.

SOMERTON, TALL 7BR.

Prices include POSTAGE, packing and VAT - NO HIDDEN EXTRAS

Amstrad SUPERSTORE



Expiry date

ADDAMS FAMILY

Please make all cheques payable to

Future Publishing Limited

Ocean • 128K, disk-only The huge, super-tough ame that scored a Mastergame in AA82 is low available to AA aders at a special bargain price. Can you res

cue all your relatives from the

Addams Family Disk	£12.99	AA475D
Description	Price	Order N
	ucptii	2 OI LIIC



PROTEXT

Arguably the best word processor you can buy for your Amstrad (it's the one used by the AA editorial team). Very fast, and allows comprehensive file-handling from within program. Can be 'expanded' with Prospell Promerge and Protype packages, available from Arnor. Works on 464 and 6128 . DISK ONLY.

Description	Price	Order N
Protext Disk	£19.95	AA674D

See our amazing subscription offer of free software on page 48



Keen your valued Amstrad Action magazine collection together in this bright red binder.

Description	Price	Order No
One binder	£5.99	AA417R
Two binders	£11.00	AA4172R



SEND THIS FORM TO: Amstrad Action, Future

Publishing Ltd. Freepost, Somerton, Somerset, TA11 7BR

Not, strictly, a conversion of the film but a platform explore and beat-em-up featuring the two lovable characters. Jake and Elwood, Five levels, and lots to keep you going

save up to £3

Order I
AA6720
99 AA672I



Under 5s (Teddy Bear) can learn addition, drawing painting, picture-matching

karaoke (!) and reading.

SCHOOL 4

Database Software

There are six games in

each package, and three

under 5s, one for the 5-7s

and one for the over 7s.

save up

to £5

packages: one for the

5-7s (Frog) learn how to sort books, be a shopkeeper, do sums, arrange letters and numbers in sequence, match words and type.

Over 7s (Spy) can learn arithmetic, answer questions, convert currency. understand timetables and learn geography and dates

			Description		
. Bear Cass	£9.99	AA650AC	Frog Disk	£11.99	AA651AD
. Bear5 Disk	£11.99	AA650AD	Spy Cass Spy Disk	£9.99	AA652AC
rog Cass	£9.99	AA651AC	Spy Disk	£11.99	AA652AD



Word processor, database, spreadsheet, label printer, graphics and communications - a fabulous all-in-one nack at an amazing price!

Word processor Uses menus and/or embedded commands for most functions. Lets you import text from the database module

save up to £4

Database Five different field types available. Handles arithmetical functions, record sorting

Spreadsheet You can copy formulae or absolute values from cell to cell, print out all or part of your spreadsheet and recalculate automatically or manually

Label printer Lets you design labels and 'read' data

Graphics Produces pie, bar or line charts. Can accept data directly from spreadsheet. Dumps graphs directly

Comms Range of comms protocols supported, plus files saved directly to memory or disk.

Description	Price	Order No
Mini Office II Cass	£13.99	AA670AC
Mini Office II Disk	£15.99	AA670AD

Welcome to another batch of readers' programs plus JERRY GLENWRIGHT'S ongoing BASIC tutorial - everything you need to get the most out of your machine's inbuilt BASIC! If you've got any programs you think are good enough for publication, send them to: Type-Ins, Amstrad Action, Beauford Court, 30 Monmouth Street, Bath, Avon BA1 2BW... you could win £20!

MFFILE



The Multiface is one of the gamer's best tools for getting those otherwise unattainable high scores, right? Problem is, a

month or two after buying a Multiface, and you've got more scraps of paper with obscure pokes on them than er, someone with lots of scraps of paper. Try digging out your favourite poke from that lot

But now there's David Madden's MFFile poke database. Realising that the best way to store pokes was to assign the task to his CPC, David, of Farnborough, Hants, decided to write a dedicated database and MFFile is the result.

Consisting of just 4K, the program enables you to store up to 250 pokes together with the name of the game they apply to, address and effect - it's wonderfull

A must for dedicated cheats everywhere.

{LtAp} 10 · 'Multiface · Cat

(FpAu) 20. 'For Amstrad Action & PD

{MvAw} 30 · By · David · Madden · on · 464 + · March · 1992

(PxAr) 40 'All REM's must be typed in

(NIAg) 50.ON.ERROR.GOTO.1160

(PnAw) 60 BORDER 3: PAPER 0: INK 0.3: INK 1.24

{MxB1} 70.DIM.name\$(250):DIM.pok\$(250):DIM.efc\$ (25A)

{Mmax} 80 · MODE · 1:PEN · 2:PRINT · STRING\$ (40,251)

{DqCk} 90 ·PEN·1:LOCATE·2,3:PRINT"WELCOME·TO·MUL TIFACE . CATALOGUE . (v1,1)."

{HtBm} 110 · PEN · 1 : PLOT · 135 , 80 : DRAW · 135 , 300 : DRAW ·

{Gkax} 120 DRAW 510.80: DRAW 135.80

{MoAt} 130 .PLOT . 135, 260 : DRAW . 510 . 260

{KxBk} 140 · PEN · 2 : LOCATE · 13 . 8 : PRINT" A-LA-

{NmCl} 150 · LOCATE · 11 . 11 : PRINT" 1 . · INFORMATION . " :

UR · CHOICE · >>"

{CiBi} 190 -a = INKEY : IF -a = "" - THEN - 190

{CoBk} 210.0N.a.GOSUB.220.320.670.840.1020

{AmAx} 230 ·CLS:PEN·2:PRINT·STRING\$(40.251)

{HsBr} 240 PEN 1: LOCATE 12.3: PRINT" (< INFORMATI

HE · OPTION · · OF · · CREATING · A · · FILE · TO · STORE ·ALL · YOUR · · MULTIFACE · · CHEATS · IN . · IT · CAN · HOLD · UPTO · · 250 · ENTRIES · AT · ANY · ONE · TIME . · TO · CREATE · · A · · FILE · · JUST · SELECT · · OPTION ·

{KtBj} 100 PEN 2:LOCATE 1,5:PRINT STRING\$(40,25

510.300

CARTE - MENU"

LOCATE . 11.13: PRINT" 2. . ENTER . DATA."

{ErBx} 160 · LOCATE · 11, 15 : PRINT" 3, · LOAD · FILE" : LOC ATE-11,17:PRINT"4, SEARCH-A-FILE."

{CvB1} 170 · LOCATE · 11, 19: PRINT"5, · END · PROGRAM."

{NwBs} 180 · LOCATE · 6, 22: PRINT" < (· PLEASE · ENTER · YO

{MwBm} 200 a=VAL(a\$):IF a=0.0R a>6.THEN.200.ELS E. 210

(Erap) 220 REM · Information

ON - >>"

{KtBj} 250 PEN 2:LOCATE 1,5:PRINT STRING\$(40,25

{Giat} 260 · PEN · 1 : LOCATE · 1,8

{DxGq} 270 PRINT" THIS PROGRAM WILL GIVE YOU T

1.AT. THE . MENU . PAGE." {NmHm} 280 · PRINT" · IF · YOU · · WISH · TO · ADD · MORE · · POK ES · INTO · A · · SAVED · FILE · ALL · YOU · HAVE · TO · DO

·IS · · JUST · · LOAD · THE · · FILE · AND · THEN · · SELE

CT-OPTION -- ONE -- AT -- THE -- MENU -- PAGE - AND -WHAT · EVER · · NUMBER · THE · LAST · FILE · FINISHED AT. THAT . IS . WHERE . YOU . YOU . WILL":

(F.iag) 290 PRINT" START FROM"

{J.jBu} 300 · PEN · 2 : LOCATE · 7.23 : PRINT" << · PRESS · ANY ·KEY·FOR·MENU·>>"

{MpAt} 310 . CALL . &BB18 : GOTO . 80

{EmAr} 320 · REM · Entering · Data {MgAw} 330 ·CLS:PEN·2:PRINT·STRING\$(40,251)

{JnBq} 340 PEN 1: LOCATE 11, 3: PRINT < ENTERING DATA ->>"

{N,jBk} 350 PEN 2: LOCATE 1, 5: PRINT STRING\$ (40,25

{MvBs} 360 · PEN · 1 : LOCATE · 7, 7 : PRINT "PRESS · [RETURN 1. TO . END . THPIIT

{Dtax} 370 · WINDOW#1,1,40,22,25:CLS#1

{AqAu} 380 PRINT#1.STRING\$(40.140)

(BoBr) 390 · LOCATE · 4 , 24 : PRINT " VALID · MULTIFACE · AL PHA · NUMERICAL · ="

{OtBs} 400 ·PEN · 2 : LOCATE · 4 . 25 : PRINT "A · B · C · D · E · F · -.0.1.2.3.4.5.6.7.8.9"

{GpAs} 410.WINDOW#2,1,40,9,21:CLS#2

(MkAo) 420 · FOR · b=1 · TO · 250

{CgAx} 430 · IF · LEN(name\$(b))>0 · THEN · 490

{Nkax} 440 ·PRINT#2, "CAT · NUMBER · ";b;"="

{DsAx} 450 · INPUT#2, "NAME · OF · GAME · · · : · ", name \$ (b)

{BmAw} 460 · IF · name \$ (b) = " · THEN · 500

{BpB1} 470 · INPUT#2, "ADDRESS · & · POKE · : · ", pok\$(b)

{AtB1} 480 · INPUT#2, "EFFECT · OF · POKE · : · ", efc\$(b) {Mwak} 490 · NEXT

{KvBq} 500 · CLS:PEN · 1:LOCATE · 13,5:PRINT"NO · MORE · ENTRIES"

{JtCi} 510.LOCATE.2.7:PEN.2:PRINT"DO.YOU.WISH.

BASIC tutorial... BASI

As I said last month, just about the most important concept in programming - programming with any language, is the loop. Without it, iterations, (processes repeated again and again) would have to be written into your program each time they were needed. Let's look at an example.

Say you wanted to collect medical history information from new hospital patients. Sounds like a perfect job for a computer right? A set of sensible questions would guide both questioner and questioned through standard medical history, enabling doctors to determine what state a new patient was in.

But without some kind of loop to ask those questions, the input statements would have to be written over and over again for each question - what a drag! Which is where the loop comes in.

handles the questioning. Each time the program needs to ask a question, the looping lines of question code could be called ('called' means to invoke or use a sub-section of code) And we could make it even simpler than that! The main program could consist

of the loop of questioning code, and the program would loop around it again and again until some condition was met, say, reaching the end of the set questions, or a negative answer to a prompt such as "...continue?". Then the program could continue in a different vein, maybe calculating results or ending altogether.

See the possibilities?

And now let's look at a practical example using our string counting code from

{FnB1} 530 · IF · c\$="y" · OR · c\$="Y" · THEN · 550

{KoB1} 540 · IF · c\$="n" · OR · c\$="N" · THEN · 80 {Cwap} 550 · REM · Save · File

{LkCl} 560 PEN · 1:LOCATE · 3, 10:PRINT PLEASE · ENTER A . NAME . FOR . YOUR . FILE . - . "

{JtAu} 570 · LOCATE · 3, 11: INPUT"= · ", d\$

{HoAt} 580 · IF · d\$="" · THEN · 80

{BoAn} 590 · OPENOUT · d\$

(NsAo) 600 · FOR · b=1 · TO · 250

{AlBj} 610 WRITE#9, name\$(b), pok\$(b), efc\$(b)

{P.iak} 620 NEXT

{JIAo} 630 · CLOSEOUT

{MxBu} 640 · CLS:LOCATE · 6,14:PRINT " << · YOUR · FILE · IS ·NOW·SAUED·>>"

(FxCi) 650 LOCATE 1,16:PRINT"PLEASE PRESS ANY KE Y. TO . RETURN . TO . MENU"

{JiAs} 660 · CALL · & BR18 : GOTO · 80

(Grag) 670.REM.Load.File

{LpAw} 680 ·CLS:PEN·2:PRINT·STRING\$(40.251)

(OIBp) 690 PEN ·1:LOCATE · 12.3:PRINT * ((· LOAD · A · FIL E->>"

{NjBj} 700 · PEN · 2:LOCATE · 1,5:PRINT · STRING\$ (40,250

{BmE,j} 710 PEN 1:LOCATE 1,7:PRINT PLEASE MAKE ·SURE · YOU · · HAVE · INSERTED · · · · THE · CORRECT · TAPE/DISC . WHICH . CONTAINS THE . FILE . YOU ·WANT · TO · LOAD . "

{GvBs} 720 ·PEN · 2:LOCATE · 7,12:PRINT"PLEASE ·NAME · T HE-FILE-TO-LOAD"

{HuAu} 730 · LOCATE · 7,13 : INPUT" = · ", e\$

{Frat} 740 · IF · e\$="" · THEN · 80

{CmBs} 750 PEN 2: LOCATE 6, 15: PRINT 4 VYOUR FILE IS . NOW . LOADING . >> "

{Duan} 760 · OPENIN · e\$

(Blap) 770 · FOR · b=1 · TO · 250

{CiBj} 780 · INPUT#9, name\$(b), pok\$(b), efc\$(b)

{IuAk} 790 ·NEXT

{IpAn} 800 · CLOSEIN

{BkBr} 810 · LOCATE · 6, 15 : PRINT" · << · YOUR · FILE · IS · NO W.LOADED.>>"

{GuBs} 820 · LOCATE · 7, 20 : PRINT " << · PRESS · ANY · · KEY · F OR MENIL 33"

{Ilas} 830 . CALL . & BB18 : GOTO . 80

{CoAq} 840 · REM · Search · File

{Gwax} 850 · CLS:PEN · 2:PRINT · STRING\$(40.251)

{AmBp} 860 · PEN · 1 : LOCATE · 12 . 3 : PRINT " << · SEARCH · A · F TLE - >>"

{GjBj} 870 · PEN · 2:LOCATE · 1,5:PRINT · STRING\$(40,250

{EtBs} 880 · LOCATE · 8, 9; PRINT" (· PRESS · ANY · KEY · WHEN

{KvBq} 890 · PEN · 1 : LOCATE · 2 , 11 : INPUT · "NAME · TO · FIND .:":find\$

{CxAu} 900 · IF · f ind \$= "" · THEN · 80

{CnAv} 910 · WINDOW#4,1,40,13,25:CLS#4

{K,jAp} 920 · FOR · b=1 · TO · 250

{GqAk} 930 · f=0

((thri

{E.iAg} 950 · TF · f=0 · THEN · · 990

{EnBm} 960 · PEN · 2 : PRINT#4 , b : name \$ (b) : " · " : pok \$ (b)

{NsAt} 970 · PRINT#4 . TAB(4) : efc\$(b)

{PqAm} 980 - GOTO - 940

(GiAk) 990 NEXT

{OnAx} 1000 PRINT#4:PRINT#4, "SEARCH FINISHED"

{DkAt} 1010 CALL &BB18:GOTO 80

{MpAr} 1020 · REM · End · Program

{BmAv} 1030 · CLS:PRINT · STRING\$ (40,251)

{BmBt} 1040 · PEN · 1 : LOCATE · 12, 3 : PRINT " << · END · PROGR AM.SSI

{LiBj} 1050 · PEN · 2:LOCATE · 1,5:PRINT · STRING \$ (40,25

{HiDm} 1060 PEN 1:LOCATE 3.9:PRINT HOW DO YOU WI SH . TO . END . THE . PROGRAM" : LOCATE . 3, 11 : PRINT "EITHER . BY . - "

{GqBn} 1070 · LOCATE · 5,13:PRINT"1, · RETURNING · TO · BA SIC"

{OuBw} 1080 · LOCATE · S, 14: PRINT" (WITH · PROGRAM · STIL L · IN · MEMORY)"

{LpBr} 1090 · LOCATE · 5,17: PRINT"2, · RESETING · THE · MA CHINE"

{AnBm} 1100 PEN 2:LOCATE 2,19:PRINT"PLEASE SELEC

{FsBi} 1110 g\$=INKEY\$: IF g\$="" THEN 1110

{EpBo} 1120 g=VAL(g\$); IF g=0 OR g>2 THEN 1120 EL SE - 1130

{Alas} 1130 · ON · g · GOSUB · 1140 , 1150

{PtBq} 1140 · CLS : BORDER · 1 : INK · 0 , 1 : INK · 1 , 24 : PEN · 1 :

{I.jAm} 1150 · CALL · 0

{IoBt} 1160 PRINT"SORRY THERE IS ANY ERROR IN LI NE"; ERL: END

LEDGER



When home computers first became available to the great unwashed (ie you lot), many selfstyled experts decided that the

machines must be put to sensible uses - teaching the kids, tracking your finances and generally helping out around the home. Having fun with your silicon was considered irresponsible.

They were wrong of course, as time and ten thousand or more games have proved.

But computers are perfectly adapted to shoving around otherwise incomprehensible figures, and Paul Hefferman's Ledger is here to show you why.

The program enables budding billionaires to {BpB1} 940:f=INSTR(f+1,LOWER\$(name\$(b)),LOWER\$(f keep an eye on expenditure by providing an onscreen ledger showing input and expenditure. You can open as many ledgers as disk space allows, edit and print them.

{LwAt} 10.'.Ledger.1991.Paul.Heffernan

{ImBr} 20.DIM.m\$(12),inc(20),inc\$(20),expend(20) expend\$(20)

{EmBj} 30 . MODE . 2: INK . 0, 26: INK . 1, 0: BORDER . 26

{HiCk} 40 · INPUT · "Load · Opening · Balance · or · new · Ope ning.Balance.(Press.N.for.new.balance)"; a\$

{OrDj} 50 · IF · UPPER\$(a\$)="N" · THEN · INPUT · "Sum · of · m oney.";bal:OPENOUT."balance":WRITE.#9,ba 1:CLOSEOUT

{JkBq} 60.OPENIN."balance": INPUT.#9, bal:sp=bal:M 16=hal

(BqBu) 70 DATA Jan, Feb, Mar, April, May, June, July, A ug, Sept, Oct, Nov, Dec

{EwBp} 80 FOR p=1 TO 12: READ A\$: m\$(p)=a\$: NEXT: m=

(BpAm) 90 · MODE · 2

{IkBj} 100 · LOCATE · 1,1 : PRINT · "Month · : " ; m\$(m)

{LpAw} 110 · LOCATE · 20,1 : PRINT · "Title · ";t\$

{PxBv} 120 · LOCATE · 58,1 : PRINT · "Balance · "; USING · "# #######, .##";bal

{PoBo} 130 · LOCATE · 1, 2: FOR · p=1 · TO · 80 : PRINT · "-"::NEXT

{Pkag} 140 · WINDOW · 1,80,25,3

{AkBs} 150 · LOCATE · 38.2 : PRINT · "Menu" : LOCATE · 38.3 : PRINT."----"

{HIBm} 160 · LOCATE · 32,4 : PRINT · "1. · Change · Month"

{MwBj} 170 · LOCATE · 32,6:PRINT · "2. · Enter · Title"

{OvBm} 180 · LOCATE · 32,8:PRINT · "3. · Enter/Edit · Ledg

{ApBk} 190 · LOCATE · 32, 10 : PRINT · "4. · Save · Ledger"

{BwB1} 200 · LOCATE · 32,12 : PRINT · "5 . · Load · Ledger" {DbB1} 210 · LOCATE · 32, 14: PRINT · "6, · View · Ledger"

{IqBm} 220 · LOCATE · 32,16 : PRINT · "7. · Print · Ledger" {AsBk} 230 · LOCATE · 32 . 18 : INPUT · "Enter · no . " : n

{KgBn} 240.0N.n.GOSUB.260,310,330,690,770,820,90

{AgAm} 250 - GOTO - 90

{LmCp} 260 · CLS : WINDOW · 1,80,25,1 : FOR · p = 1 · TO · 12 : LO CATE · 36, p+5: PRINT · p; m\$(p): NEXT

{CwCq} 270 · WINDOW · 1,80,25,1:bal=g:LOCATE · 58,1:PR INT . "Balance . "; USING . "#########, . ##"; bal

{IxBl} 280 · LOCATE · 36, 20 : PRINT · "Enter · month · no . "

{CqBm} 290 · LOCATE · 8,1: INPUT · m: IF · m <1 · OR · m >12 · TH EN - 290

{NuAm} 300 - GOSUB - 90

{HiBq} 310 · CLS: WINDOW · 1,80,25,1:LOCATE · 26,1:INP UT . "", t\$

{MmAm} 320 - GOSUB - 90

{GvDn} 330 · inc\$(1)="Opening · Balance": inc(1)=bal :ak47=ba1:CLS:MOVE . 320,0:DRAWR . 0,370:MOV E.325,0:DRAWR.0,370:MOVE.315,0:DRAWR.0,3

{LuCp} 340 · LOCATE · 1, 2: PRINT · "Opening · Balance · "; :LOCATE . 27.2:PRINT . USING . "########## . . ##" :bal

{JgAn} 350 · sp=bal

{PnDq} 360 · FOR · p=2 · TO · 20 : LOCATE · 1 . p+1 : sc\$=inc\$(p):sc=inc(p):INPUT."",inc\$(p):IF.inc\$(p) ="*" · THEN · inc\$(p)="" :GOTO · 390

{HtBl} 361.IF.inc\$(p)="".THEN.inc\$(p)=sc\$

{CmAw} 362 · IF · inc(p)=0 · THEN · inc(p)=sc

{Crax} 370 · LOCATE · 27, p+1: INPUT · "", inc(p)

{CnDi} 380 LOCATE 1, p+1: PRINT inc\$(p);"..... #":inc(p):NEXT

{LiEp} 390 · y=1:FOR · p=1 · TO · 20:LOCATE · 43, p+1:sc\$= expend\$(p):sc=expend(p):INPUT."".expend\$ (p):IF expend\$(p)="*" · THEN · expend\$(p)="" :GOTO - 420

{KpBq} 391 · IF · expend\$(p)="" · THEN · expend\$(p)=sc\$

{BmBn} 392 · IF · expend(p)=0 · THEN · expend(p)=sc

{OsBj} 400 · LOCATE · 68, y+1: INPUT · "", expend(p)

{AjDu} 410 · LOCATE · 43, p+1:PRINT · expend\$(p);"....":LOCATE.68,p+1:PRINT.USING"######## #,.##";expend(p):y=y+1:IF·y=22·THEN·CLS

{Cmam} 415 NEXT

{KsBw} 420 · v=0:FOR · p=1 · TO · 1000: v=v+inc(p):IF · in c(p)=0.THEN.430.ELSE.NEXT

{MiCk} 430 · b=0:FOR · c=1 · TO · 1000:b=b+expend(c):IF ·expend(c)=0·THEN·440·ELSE·NEXT

{AmCv} 440 · IF · c>p · THEN · LOCATE · 27, c+4 : PRINT · "--------::LOCATE · 68, c+4:PRINT · "-----

{CrCu} 450 · IF · p>c · THEN · LOCATE · 27, p+4 : PRINT · "--------":LOCATE · 68, p+4:PRINT · "-----{EsCt} 460 · IF · p=c · THEN · LOCATE · 27, p+4 : PRINT · "---

-----::LOCATE - 68, p+4:PRINT - "-----

{DoAv} 470 · IF · v>b · OR · v=b · THEN · 530

{HrAt} 480 · IF · b>v · THEN · 610

{IqCq} 490 · WINDOW · 1,80,25,1:bal=g:LOCATE · 58,1:P RINT . "Balance . "; USING . "#########, . ##"; ba {ImB.i} 495 · IF · prntr\$="OKAY" · THEN · RETURN

{PlCr} 500 · WINDOW · 1,80,25,1:LOCATE · 28,2:PRINT · " Press.any.key.for.menu":WHILE.INKEY\$="":

'{OnBv} 510 .LOCATE .1 .2 :FOR .p=1 .TO .80 :PRINT ."-";:NEXT:WINDOW-1,80,25,3

{EuAr} 520 - sd=bal:RETURN

{AxCi} 530 · IF · c>p · OR · c=p · THEN · LOCATE · 27, c+5 : PRI NT-USING"######### , . ##" ; v

{IuBx} 540 · IF · p > c · THEN · LOCATE · 27, p + 5 : PRINT · USIN G"########; . ##"; v

{EkCj} 550 · IF · c>p · OR · c=p · THEN · LOCATE · 68, c+5 : PRI NT-USING"#########, .##";v {N1Bx} 560 · IF · p>c · THEN · LOCATE · 68, p+5 : PRINT · USIN

G"#########; .##";v {MwDm} 570 · IF · c>p · OR · c=p · THEN · LOCATE · 43 · c+3 : PRI NT. "Closing.Balance."::LOCATE.68.c+3:PRI

NT-USING"#########, .##";v-b {IqD1} 580 · IF · p > c · THEN · LOCATE · 43, p + 3: PRINT · "Clo sing.Balance."::LOCATE.68.p+3:PRINT.USIN

G"######## , . ##"; v-b

{F1A1} 590 - g=v-h

{AnAm} 600.GOTO.490

{CvCi} 610 · IF · c>p · OR · c=p · THEN · LOCATE · 27, c+5:PRI NT · USING"######### . . ##" : b

{NtBx} 620 · IF · p > c · THEN · LOCATE · 27, p + 5 : PRINT · USIN G"########: . ##":b

{MkC,j} 630 · IF · c>p · OR · c=p · THEN · LOCATE · 68 · c+5 : PRI NT-USING"#########; . ##";b {ImBx} 640 · IF · p > c · THEN · LOCATE · 68, p + 5 : PRINT · USIN

G"########::b {JxDm} 650 · IF · c>p · OR · c=p · THEN · LOCATE · 1 , c+3 : PRIN T. "Closing.Balance.";:LOCATE.27,c+3:PRIN

T-USING"######### . . ##" : h-v {OoDm} 660 · IF · p > c · THEN · LOCATE · 1, p + 3 : PRINT · "Clos ing Balance : ;: LOCATE . 27, p+3: PRINT . USING "######## . ##" : h-u

{CxAm} 670 - q=v-b

{DvAm} 680 - GOTO - 490

{NtBv} 690 · CLS : CAT : INPUT · "Filename · : " .f\$: IF · LEN (f\$)(1.0R.LEN(f\$))8.THEN.90

{CmAn} 695.ak47=hal

{MvAw} 700 OPENOUT fs:WRITE + #9, m\$(m), t\$, bal

{BqBi} 710 · IF · c>p · THEN · WRITE · #9, c:n=c {JxBi} 720 · IF · p > c · THEN · WRITE · #9, p : n = p

{ImAw} 730 · IF · c=p · THEN · WRITE · #9, c:n=c {NxCk} 740 FOR p=1 TO 20: WRITE #9, inc(p), inc\$(p)

),expend(p),expend\$(p):NEXT {MpAo} 750 · CLOSEOUT

{HwAm} 760.GOTO.90

{FnBw} 770 · CLS : CAT : INPUT · "Filename · : " , f\$: IF · LEN (f\$)(1.0R.LEN(f\$))8.THEN.90

{NsAw} 780 · OPENIN · f\$: INPUT · #9, m\$(m), t\$, bal, n

{GuCk} 790 · FOR · p=1 · TO · 20 : INPUT · #9, inc(p), inc\$(p),expend(p),expend\$(p):NEXT

{IpAn} 800 · CLOSEIN

{EgAn} 810 - GOTO - 90

{MnCm} y=1:CLS:MOVE.320,0:DRAWR.0,370:MOVE.325, 0:DRAWR . 0.370:MOVE . 315.0:DRAWR . 0.370

{DmCs} 830·bal=sp:LOCATE·1,2:PRINT·"Opening·Bal ance · ": LOCATE · 27, 2: PRINT · USING · "####### #..##":SP

{EmCt} 835.LOCATE.43,2:PRINT.expend\$(1);"..... #":expend(1)

{GrAq} 840 · FOR · p=2 · TO · 20

{BgAx} 845 · IF · y=22 · THEN · GOSUB · 2000

{BrAm} 846 · y=y+1

{FkBq} 847·IF·inc\$(p)=""·AND·expend\$(p)=""·THEN

{OgAt} 848 · IF · inc(p)=0 · THEN · 855

{IiCr} 850 · LOCATE · 1, y+1: PRINT · inc\$(p);"······ ":LOCATE . 27, y+1:PRINT . USING ##########, .# #":inc(p)

{Clax} 855 · IF · expend(p)=0 · THEN · 865 {FwCw} 860 · LOCATE · 43, y+1:PRINT · expend\$(p);"····

{JwAs} 880 .nb\$="Y":GOSUB.420

····":LOCATE · 68, y+1:PRINT · USING ######### #,.##";expend(p) (Lugh) SES NEXT

{JsBi} 885.IF.prntr\$="OKAY".THEN.RETURN

{JsAs} 890 · bal=sd:GOTO · 90 {DwBk} 900 prntr\$="OKAY":GOSUB-820:PRINT-#8,""

{KoCl} 901 · x = 1 : l = 1 : FOR · p = 1 · TO · 2 * 80 : LOCATE · x , l : t \$=COPYCHR\$(#0):PRINT:#8,t\$;:x=x+1

{FkBo} 902 · IF · x = 81 · THEN · x = 1 : 1 = 1 + 1 : PRINT · #8 , ""

{Pr41} 903 NEXT {OqAv} 910 ·x=1:1=3:FOR ·p=1 · TO · 22*80

{FjAw} 920 · LOCATE · x, 1:x\$=COPYCHR\$(#0)

·8. nn

{Fkap} 930 PRINT +#8,x\$; {CuBq} 940 x=x+1: IF x=81 THEN x=1:1=1+1: PRINT #

{Owat} 950 NEXT: IF .p>21*80 THEN . 250 .

STAR DODGE

bottom of your toy-box.

Here's an absolute corker! Star Dodge, like all the best games, is the simplest of ideas coupled with the funkiest of fast gameplay to provide a space-based thrash that will keep you

Play area consists of star field dotted around with killer meanies (asterisks actually, but use your

playing long after the rest are gathering dust at the

BASIC tutorial... BASIC tutorial... BASIC tutorial... BASIC

10 REM This is a program to count the characters in a string

20 INPUT "Please type a string"; A\$ 30 PRINT "The string '"A\$"' is "LEN (A\$) "characters long." 40 END

You'll remember that if we wanted to use the program a second or third time, we had to run it again. Let's suppose, though, that you know exactly how many strings you want to count. Here's how we could use a loop:

10 REM This is a program to count the characters in a string 20 FOR CNT=1 to 5

50 PRINT "The string '"A\$"' is "LEN (A\$) "characters long."

30 04-44 40 INPUT "Please tupe a string": A\$

used it in anger. So what's happening?

60 NEXT CHT

Regular readers will remember their brief introduction to the FOR ... NEXT construction in the first instalment of the BASIC tutorial, but this is the first time we've

Well, line 20 is saying: I want to loop around the following code 5 times, so set CNT (currently equal to 1) and loop again. BASIC follows this instruction and zips

why later - but do keep 'em obvious) and specify how many times I want to loop. Got that?

BASIC now knows we want to loop five times. So let's start looping!

null again after each progression through the loop. Lines 40 and 50 are our standard input prompt, variable assignment and cal-

Line 30 ensures that there's nothing in the string variable AS and that its made

Now here comes the second part of that FOR ... NEXT loop construction. Line 60 says: Fine. We've done our stuff once, let's run through the next occurrence of

up a loop counter called CNT (the shorter a loop counter the better - I'll tell you back to line 30 (NOT line 20. We don't want to reassign the loop counter all over again else CNT will always be one and the loop will be endless!). And on the process goes, BASIC remembers what CNT equals and after each

> Otherwise we'd only go around the loop four times...). When that happens, the loop ends and the rest of the program is processed. You can check what's happening to that loop counter by adding the line:

time through the loop increases its value by one until the value equals six (not five.

55 PRINT CNT

Most of the best games are unfortunately

but don't expect much from most

games - many graphics are rub-

bish! A good parser is an

important feature of a good

adventure - the more words the

The trouble is, your ship moves diagonally across the screen at a tremendous rate, and the only way to keep it from hitting anything is to alter the direction of the diagonal with the space bar it's fiendishly difficult and very, very addictive. Don't believe me? Try it for yourselves! Just goes to show that sometimes the simplest ideas are the best...

Star Dodge is the code of a clever chap by the name of Graham French. Well done young Master French, twenty quid's winging its way to you as I

{AoAu} 10.'**...STAR.DODGER.u2...**

{IoAs} 20.'**.G..French.(14-2-92).**

{BsA.i} 30."

{KvAo} 40.'** SET-UP-**

{Fiar} 50 DEFINT -a-z:GOSUB-1110

{FsAu} 60 · ENV · 1,15,-1,10 : ENT · 1,15,-1,10

{Ptaq} 70 · '** · INSTRUCTIONS · **

{EvAs} 80 . MODE . 1: fin=0:q=5:sp=0

{DmB,j} 90 · INK · 0 . 0 : BORDER · 0 : INK · 2 . 26 : INK · 3 . 0

{AmAt} 100 · INK · 1, 21: SPEED · INK · 2, 10

{GkBo} 110.a\$="StarDodger":a=17:y=1:GOSUB-1160

{FmCl} 120 as="Avoid the killer Asterisks, and seek·the":a=2:y=5:GOSUB·1160

{MsBu} 130 a = "wondrous Nextscreen Gap.": a=10:y =6:GOSUB · 1160

{KwBo} 140 a\$="Use SPACE to climb":a=13:y=13:G0

SUB-1160 {IjCi} 150 a\$="Do you want the slow speed Y/N":

a=8: y=16:GOSUB:1160 {AmCt} 160 a = UPPER\$(INKEY\$): IF a = "Y" THEN sd=

1.ELSE.IF.a\$="N".THEN.sd=0.ELSE.160

{HkAn} 170.GOSHB.550

{AkAu} 180 · '** · GAME · SCREEN · **

{AjAt} 190 · MODE · 1: yt = 228: yb = 172

{BoBk} 200 DRAWR 629,0,2:DRAWR 0,170:MOVER 0,60

{JkBl} 210.DRAWR.0,169:DRAWR.-629,0:DRAWR.0,~

399

{KnBj} 220.DRAWR.0,2:DRAWR.627,0:DRAWR.0,168

{GxB1} 230 MOVER 0,60:DRAWR 0,167:DRAWR -625,0

{PjB1} 240 · DRAWR · 0, -399:MOVE - 636,0:DRAW - 636,399,3

{AuBl} 250 MOVE 638,0:DRAW 638,399:PLOT -1,-1,1

{HrBs} 260 · IF · q > = 45 · THEN · INK · 1,21,0 : sp=sp+1 : SPE ED · INK · 3 . 1+sp

{LgAx} 270 · IF · sd · THEN · d=3 · ELSE · d=4

{DkAr} 280 · TAG: FOR · s=1 · TO · q

{MiBk} 300 PRINT"*";:NEXT:TAGOFF:MOUE 0.200

{DuAw} 290 · MOVE · 50 + RND * 561 . 20 + RND * 361

imagination, OK?). You have to cross the star field {AtBn} 310 · IF ·q > 55 · THEN · EVERY · 25, 2 · GOSUB · 1230 {Ku013 320.44-4

> CIIOn'S 330. ' ** THE COME. ** {BgAp} 340 DRAWR dd.d.2

{IoBo} 350 · IF · INKEY(47)=0 · THEN · d=dd · ELSE · d=-dd

{BtAq} 360 · t=TESTR(2,d/2)

{HsAu} 370 . IF . t=1 . OR . t=2 . COTO . 410

{JtBo} 380 · IF · t=3 · THEN · SOUND · 1,50,150,15,1,1:GO TO - 510

{LxAw} 390 · MOUER · - 2, -d/2:GOTO · 340

{KqAs} 400 · '** · HIT · SUMMIT' · NASTY · **

{MoB.i} 410 · i = REMAIN(2): SOUND · 1,0,150,15,1,,31

{DuB.i} 420 BORDER 26: INK 0, 26: INK 1,0: INK 2,0 {NtAg} 430 · TNK · 1 . 21 : TNK · 2 . 26

{OmBk} 440 · MODE · 1 : BORDER · 0 : INK · 0 . 0 : scr = (q/5) - 1

{HjBu} 450 a\$="YOU.WERE.ZAPPED.BY.A.KILLER.ASTE RISK":a=4:u=1:GOSHR-1160

{BwCk} 460 a\$="Number of screens completed = "+ STR\$(scr):a=6:y=13:GOSUB-1160

{AsAn} 470 . GOSUB . 550

{PsAv} 480 · IF · scr > h(6) · THEN · GOTO · 600

{GtAp} 490 · fin=1:GOTO · 600

{PoAs} 500 · '** · COMPLETED · SCREEN · **

{OoAs} 510 · MODE · 1 : i = REMAIN(2)

{MIBw} 520 a\$="YOU.MADE.IT.THROUGH.THE.KILLER.A STERISKS":a=2:y=1:GOSUB-1160

{LjBw} 530 a\$="Stand.by.for.Screen."+STR\$((Q/5) +1):a=11:y=13:GOSUB-1160

{FiAu} 540 · GOSUB · 550 : q=q+5 : GOTO · 190

{GIBI} 550 a\$="Press any key to continue." {CiAv} 560 a=9:y=25:G0SUB-1160

{Mmax} 570 WHILE INKEY\$()" WEND CALL &BB18

(Fuan) 580 RETURN

(FsAx) 590 . ** ENTER NAME INTO HALL OF FAME **

{KgAv} 600 · MODE · 0: s=2: EVERY · 5 · GOSUB · 1060

{OuAs} 610 . EUERY . 3:1 . GOSHR . 1070

{HgAt} 620 · IF · fin · THEN · 920

{PkBk} 630 · FOR · n=3 · TO · 15 : INK · n , 0 : NEXT : PEN · 1

{AiBj} 640 · LOCATE · 4,1:PRINT"** · WELL · DONE · **

{KxAs} 650 · INK · 2, 26 : PEN · 2 : PRINT

{MqBk} 660 PRINT" YOU ARE ONE OF THE " PRINT

{Erax} 670 · PRINT" · · BEST · STARDODGERS · · " : PRINT

{Gjaw} 680 PRINT" · · IN · THE · UNIVERSE, " {InAs} 690 ·a\$="ENTER · YOUR · NAME"

{KmBj} 700 · PRINT : PRINT : PRINT : PRINT · TAB(3);

{LmAv} 710 · z=3:FOR · n=1 · TO · LEN(a\$)

{KlBr} 720 · x = MID \$ (a \$, n , 1) : IF · x \$ = " · " · THEN · PRINT "."::GOTO:740

{NuAr} 730 · PEN · z : PRINT · x\$; : z=z+1

{PmA.i} 740 NEXT

{G,iB1} 750 · LOCATE · 7.15 : PEN · 2 : PRINT" > -----(" {EpBk} 760 h\$="":FOR n=1 TO 7:LOCATE n+7.15

{CtBn} 770 as=UPPER\$(INKEY\$):IF as="".THEN.770

{J.jAx} 780 · IF · a\$=CHR\$(13) · THEN · n=8; GOTO · 830

{0xB1} 790 · IF · a\$=CHR\$(127) · THEN · n=8; q=1; GOTO · 83

{OoBi} 800 · IF · a\$ (" · " · OR · a\$) "~" · THEN · 770

{CxAt} 810 · IF · n=7 · THEN · 770

{JrAv} 820 . PEN . 1 : PRINT . a\$; : h\$=h\$+a\$

{MqBi} 830 NEXT n: IF q=1 THEN q=0: GOTO 750

{MvAt} 840 · h\$(7) = h\$: h(7) = scr

{OmBi} 850.w=1:WHILE.w:w=0:FOR.i=2.T0.7 {GxBk} 860 · IF · h(i) > h(i-1) · THEN · GOSUB · 880

{Omar} 870 · NEXT : WEND : GOTO · 920

{IpAx} $880 \cdot a = h(i) \cdot a = h(i) \cdot h(i) = h(i-1)$

{PtBj} 890·h(i)=h(i-1):h\$(i-1)=a\$:h(i-1)=a {JUAD} 900 · w=1:RETURN

{Cmau} 910.'**.DISPLOV.HOLL.OF.FOMF.**

{L.iBm} 920 · CLS:PEN · 1:PRINT" · · ** · THE · TOP · SIX · **"

{HvAw} 930 ·x=REMAIN(1):RESTORE ·950

{OnAw} 940 FOR ·n=2 · TO · 7 : READ · i : INK ·n . i : NEXT {Guar} 950.DATA.6,15,24,21,11,8

{EwBi} 960 LOCATE . 1,4:FOR . n=1 . TO . 6:PEN . n+1 {FiBk} 970 PRINT USING" .. \.... +##"; h\$(n)),h(n)

{LrAn} 980 · PRINT : NEXT

{DvAw} 990 · LOCATE · 1,25 : INK · 8,26 : PEN · 8

{HnAu} 1000 · PRINT" · · · · PRESS · SPACE · BAR" : {G.iAs} 1010.WHILE.INKEY\$(>"":WEND

{PvB,i} 1020 · WHILE · INKEY\$ (>" · " : WEND : MODE · 1

{MoBk} 1030 · INK · 3 , 26 : INK · 1 , 26 : INK · 2 , 26 : PEN · 1

{DjAs} 1040 · x = REMAIN(0):GOTO · 80

{EoAs} 1050.'**.INK.FLASH.INTERRUPTS.** (FpAw) 1060 · INK · 1, INT(RND*26)+1:RETURN

{FsBj} 1070 · IF · s>15 · THEN · s=15 : t=0 : st=-1

{NIAw} 1080 · IF · s < 3 · THEN · s = 3 : t = 21 : s t = 1

{AgAu} 1090 · INK · s, t:s=s+st:RETURN {Dlag} 1100.'**.INITIALISE.**

{JsBi} 1110.DIM.h\$(7),h(7):RESTORE.1130

{JiB.j} 1120 . FOR . n = 1 . TO . 6 : READ . h \$ (n) . h (n) : NEXT

{KjBr} 1130 DATA GRAHAM, 12, EGGY, 10, NOB, 8, MARK, 6 SARAH, 4, HILARY, 2

{DpAo} 1140 · RETURN

{CjAu} 1150 · '** · MESSAGE · PRINT · ROUTINE · **

{DnB,j} 1160 · INK · 1, 21 : FOR · n=a · TO · a + LEN(a\$)-1 {Ivax} 1170 · LOCATE · n, y : PEN · 1 : PRINT" *"

{GnAt} 1180 · LOCATE · n-1, y: PEN · 2

{OuAx} 1190 .PRINT.MID\$(a\$,n-(a-1),1):NEXT {DIBi} 1200 · LOCATE · a + LEN(a\$) - 1, y : PRINT" · "

{PkAn} 1210 RETURN

{BrAw} 1220.'**.GAP.CLOSE.INTERRUPT.** {NjAp} 1230 · x1=XPOS: y1=YPOS

{KxAu} 1240 · PLOT · 629, yb, 2 : PLOT · 629, yt {HoAv} 1250 . PLOT . 627, yb : PLOT . 627, yt

{GtBm} 1260 yt=yt-2:yb=yb+2:MOVE x1,y1:RETURN

BASIC tutorial ... BASIC TUTORIAL ...

Now the value of CNT is printed each time the loop is processed.

One important feature that you should bear in mind about the FOR ... NEXT and that there'd be no harm if you did.) loop is that it is always traversed at least once. The second important feature of any loop is that you should NEVER jump out of them before they're cover, and we'll discuss them later. complete. That is, to do this:

55 IF CNT=3 THEN GOTO 250

What's happening here is that we're checking for some condition within the loop. then prematurely ending its process and exiting - an indescribably naughty thing checking. to do for reasons which will become clear as we progress through the tutorials!

(Although at this stage, it may seem that there'd never be any need to jump out,

There are ways and means to quit loops without sending your CPC running for

Back to the loop. You now have a fragment of code which will perform a given task the requisite number of times without any intervention from you (except, of course, to type the strings.) Funky, right? But still bare-bones stuff. What happens if you give the program to someone else and they run it and type in gibberish. control codes and the like? No problem. All we have to do is add some error

But that, says Hammy Hamster, is another story. See you next month.

top 10

1) LURKING HORROR (INFOCOM, DISK ONLY)

The best Infocom game ever, simply oozing atmosphere. Need we say more? 92% (AA27)

2) LORDS OF CHAOS (BLADESOFT)

Brilliant strategy game with up to four players at once. Lots of worlds to explore and loads of spells

3) CORRUPTION

(MAGNETIC SCROLLS, DISK ONLY)

Yuppie insider dealing and power struggles make this probably the best Magnetic Scrolls game 88% (AA40)

4) BARDS TALE (ELECTRONIC ARTS)

Probably the best role playing game released on the Amstrad. You must destroy the evil Mangar but the road is long and dangerous! 90% (AA36)

5) PRICE OF MAGICK (LEVEL 9)

A massive map, verbose text and lots of puzzles. One of Level 9's best games. 90% (AA10)



6) HEROES OF KARN (INTERCEPTOR)

Brilliant graphics but a truly lousy parser. If you don't mind battling with the vocabulary, it is a very enjoyable game.

7) MAGNETIC MOON (FSF, DISK ONLY)

Well written home-brew adventure with a massive map, impressive parser and very tricky puzzles! 90% (AA72)

8) THE SPIRO LEGACY (GUILD ADVENTURE SOFTWARE, DISK ONLY)

PAW author extraordinaire, Ken Bond, with probably his best game - clever puzzles and great text . Text 88% (AA69)

9) SIM CITY (INFOGRAMES)

Strategy cum simulation game in which you must build, develop and manage a sprawling metropolos. Great effects and well put together. 82% (AA63)

10) PAW (GILSOFT, DISK ONLY)

Not strictly a game but you can have a lot of fun using it - the best adventure writer software available on the Amstrad. 90% (AA28)

Adventure and Strategy

Draw that sword and light your lamp and get ready for the low-down on the adventure games which have lit up the CPC. The infamous Balrog is your guide...

'Adventures? Nah - they're just for freaks who favourite strategy games as well. can't play arcade games - give me Final Fight any day!' The Balrog doesn't agree! Adventures disk only (sorry 464 owners!) - a disk allows a have come a long way since the early verb lot more game. Graphics can sometimes add noun input (which, to be honest, was a real pain to a game (as in the case of Heroes of Karn) and was only really enjoyable to masochists!)

and many of the adventures listed in the top 10 have very powerful parsers (the bit that understands what the player types). Adventures may be boring to some people but if you give them time they can be become very challenging - it's true that they take slightly longer to get into compared to an arcade blast, but your average adventure can take many weeks if not months to solve - how about that for value for money!

What is an adventure? Infocom used the term 'interactive fiction' and this is perhaps the best description of an adventure - the adventure game is like a book where you control the central character and dictate the plot of the book by typing your commands in plain English each time you see diligently scanning the small ads and car boot

However, rather than just list the top 10 usually much better than the games available adventures, the Balg has included some of his at present...

the prompt (usually something like 'What now?'

Lurking Horror

dent at G.U.E. Tech. You have braved a snowstorm to get to the author of the Zork trilogy and some poor graphic of a horrible Computer Centre and finish work author of Suspect, Lurking Horror denizen, you have to use your on an assignment. But the snowstorm has turned into a raging based on the writings of H.P. blzzard, and has trapped you in a Lovecraft, a famous horror author the atmosphere is electric. In fact complex of buildings late at night. who scares his readers not this is the only game where the You are not alone, fortunately... or through gore but by building the Balg did not draw a map - the perhaps unfortunately. Thus you suspense and atmosphere to such atmosphere was so good that the begin the story, unaware that any- an extent that the reader becomes map burned itself on my brain thing may be wrong beneath the engrossed in the story. Lebling has

In Lurking Horror you are a stu-surface of the quiet campus.

is one brilliant game! The game is imagination.

interactive fiction and drags you

sales and you could be in luck!

Written by Dave Lebling, co- the game. Rather than seeing

more user-friendly it will be. A good game also usually is big - they take a long time to solve as they have many puzzles and problems. However, these puzzles should not be too hard you don't want to put the player off. Many other factors can make a game good, including originality, atmosphere, interaction, puzzles and plot. Finally a couple of notes about the top ten.

1) Many of the games listed are unfortunately no longer available. This is a shame but keep or '>'). You decide the central character's 2) Many brilliant games have been ommitted. actions and ultimately whether he or she suc- Basically, nearly all of the Infocom, Magnetic Scrolls or Level 9 games are very good and

The Amstrad is not well-known in educational circles. Most schools are thoroughly committed to that shambling relic the BBC, not to mention the PC-type Nimbus machine. Some use Acorn's super-wizzo 32bit Archimedes (via BBC emulators - ha ha), but only a small number use Amstrads.

Which is a shame, since the Amstrad is about a billion times more sophisticated than the BBC and costs about the same.

So although there is a huge amount of educational software out there (and we mean huge), only a certain proportion is available on the CPC. However, students of most GSCE subjects should be able to find relevant software via Rickitt Educational Media's highly impressive software directory (see box).

The only problem with educational software is that it tends to be a bit... well, dull, Which is why Database Software's Fun School programs did so well. Having created a 'fun' educational market and then cornered it for so many years. Database now has a bit of competition. First off was Donald's Alphabet Chase from Disney Software, reviewed back in AA70. This, though, was a bit of an old dog. It looked great, but ran a bit slowly and didn're really do very much for the money. Funny, we haven't heard much about Disney Software since then...

More recently, there's the imminent appearance of the first Shoe People release. Look out for a

In general, it's youngsters who get the best deal out of educational software - that's where most programming effort and imagination has gone. Ages up to 11 are well catered for with releases like Fun School and Junior Quiz, to name but two. Older students, though, are faces with a wide range of programs in specific areas, all of which are a bit on the dour side.

One of the main problems with CPC software in general is that the best software was written years tions, the decent serious stuff is no longer available. One of these exceptions is educational software!

Educational software seems to have a very long 'shelf life'. The same is true of its publishers! While other publishers come and go, software houses who were distributing educational programs five years ago are still with us today. Come to that, so are their programs. The only things to change are the prices. Whereas games which have been out for a little while come down in price (first when they appear in compilations, and then later when they are re-released on budget labels), educational program seem to go up in price. Hmm... inflation, we suppose. Perhaps it's because most educational software is sold to schools, rather than cost-conscious, bargain-hunting private users?

The poor standard of much educational software can be attributed to this. Without the kind of mass market competition seens in the games industry, perhaps we shouldn't be too surprised that educational software is, generally, uninspiring, unoriginal and poorly programmed.

Which is why the Fun School series stands out as being the best educational software you can get for your child.

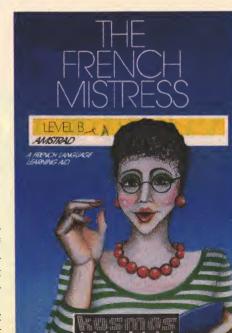


educational software

Computers aren't just for playing games on, or even solely for keeping track of your business dealings. Because they are so 'interactive' (they can respond according to what you type in) they also make excellent 'teachers'... which is why so much educational software is available, teaching everything from the three 'R's to nuclear physics. Rod Lawton is your guide in the last Buyers Guide in the series (sob sob)...

THE FRENCH MISTRESS Kosmos • £20.39 disk • 0525 873942

This is a program for students who already know the basic rudiments of French. It's also designed to be used in conjunction with textbooks, so don't expect to be able to master the language with this package alone (that's just a bit too ambitious, even for the best computer software!). The program consists of ago (sad, but true). Wih one or two notable excep- a series of lessons, each one building on vocabulary that's been learned so far. This the the only weakness of the series - not much variety.



As well as The French Mistress, Kosmos also produces The German Master. The Italian Tutor and The Spanish Tutor

ANSWER BACK JUNIOR QUIZ Kosmos • £14.25 disk • 0525 873942

Not surprisingly, Junior Quiz is a general-knowledge program that comes with 750 questions to tax voungsters in the 6-11 age group. Extra variety is provided in the way these questions can be answered; multiple choice, true or false or 'missing letters'. Worried about using up the potential of those 750 questions? There are no fewer than 15 add-on 'modules' (£9.14 disk) in the Factfile 500 series, each of which offers 500 additional guestions on specific subjects. These subjects include Artithmetic, Spelling, Sport, Natural History and Geography.

CHEMISTRY REVISION Bourne Education • £16.95 tape, £23.95 disk • 0794 523301

This is one of the better programs for older students. It provides several programs designed to test your knowledge of the subject via multiple choice questions or ones where you have to fill in gaps in the text. There are lots of questions, and the inclusion of graphics and sound effects spice things up no end. There is also a rather good Physics version.

PAN COURSE TUTORS

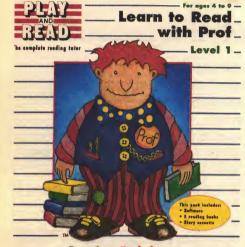
The trouble with these packages is getting hold of them. Long since discontinued, they may still be available via mail order suppliers or bookshops, though - you'll just have to shop around.

We know of at least five titles: Physics,

Chemistry, Biology, French and Maths, Each cost £14.95 (cassette). Each package contained two tapes, an instruction booklet and a Pan Study Aid book. It all sounds pretty weighty, and it is. Weighty, but good.

You start off by doing 'diagnostic tests' to work out where your areas of weakness lie - the computer gives you a full report. Then you move on the the Learning Modules (the Study Aids books may be needed here). The Physics version offers 23 modules, each containing problems to work out (diagrams are included). Formidable stuff. Bear in mind, though, that these Course Tutors aren't designed to make learning fun. They're designed to make it effective.

LEARN TO READ WITH PROF Prisma Software • £14.99 tape, £17.99 disk • 0244 326244



Part One: Prof plays a new game _ Teaches a sight recebulary to beginner readers

How do you get your little 'un to learn to read? Well. you could sit them down in front of one of those little picture books and lead them through the hard way OR you could get Learn to Read with Prof. from Prisma Software. This uses computer software in conjunction with audio cassettes and books to teach the child reading skills - a true multimedia experience! However, it has to be said that the 'game' provided by the computer software is distinctly basic compared to the sort of thing we've seen in the Fun School series. And to finish the entire reading course means buying several successive Prof. packages in the series, so it could prove expensive in the long run.

Big down under?

While the CPC definitely plays second-fiddle to that decrepit has-been the BBC in UK schools, the South Australian government has proved far more enlightened. Indeed, our antipodean buddies have installed CPCs extensively in Australian schools, and the Australian government (we're told) has even set up its own publishing company - Satchel Software. Perhaps this is why so many keen AA readers hail from Oz?

Simply the best... (better than all the rest)

FUN SCHOOL 4

Database Software • £12.99 tape, £16.99 disk • 0625 859333

Database Software's Fun School series has been a best-seller right from the start. Until it appeared, educational software had been rather dreary stuff which was only marginally more exciting than watching a teacher scratching away at a blackboard.

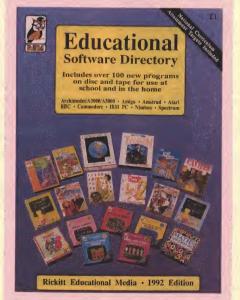
Fun School was different. While its primary purpose was still to educate, the idea was to make it

fun too! Fun School 4 uses three different cartoon characters to accompany the child on his or her voyages of discovery. There are three version of the program: one for the under-5s, one for 5-7s and one for the 7-11s. Under-5s are helped along by Teddy the bear. the 5-7s learn in the company of Freddy Frog while the 7-11s get Sammy Spy. All three packages contain six different, very colourful and enjoyable games. In each case the system is simplicity itself - you select the program you want from a main menu screen.

Fun School 4 is designed to reflect the national curriculum, but caters purely for ounger age groups. The games teach basic numeracy and literacy, though, not specific GCSE-type subjects. Kids still don't have a fun' equivalent.



One-stop shopping?



Although educational software is widely available via independent computer stores and various mail-order suppliers, by far the biggest source in the UK is Rickitt Educational Media. The company produces a directory of educational software each year - the 1992 directory contains no fewer than 96 A4 pages, and describes over 500 individual programs.

The directory normally costs £1, but AA readers can get a copy free by calling Rickitt on 0460 57152 and saying that we sent you.

Buyers' Guide Index

We've reached the end of our giant, definitive Buyers' Guide series, so now's a chance to recap on all the territory we've covered over the last ten (yes, 10!) issues:

SEDIOUS

SENIOUS	
Printers	AA74
Peripherals: part 1	AA75
Peripherals: part 2	AA76
Accounts	AA77
PD software	AA78
Joysticks	AA79
Word processors	AA80
Desktop publishing	AA81
Art packages	AA82
Educational software	AA83

CAMES

GAIILO	
Platform games	AA74
Shoot-em-ups	AA75
Prive-em-ups	AA76
Beat-em-ups	AA77
Arcade adventures	AA78
ootie games	AA79
Puzzle games	AA80
ports	AA81
imulators	AA82
dventure & strategy games	AA83

issue on sale



Big Bird, eh? Is that really the best we could come up with then? Gawd help us. Oh well, here's next month's lot...

Games at the Back

You want a sixteen page games section? You got it. **Next month we** gather Action Test, Cheat **Mode** and three pages of Action

BrunWord

ROM



Replay together in a brand new position at the back of the magazine. Hurrah!

ROM at the Top

The first in a series of interviews (People Profiles) sees Rod dropping in on top serious programmer Peter Brunning of Brunning

Software. We eavesdrop their conversation about the ROM version of the Brunword word processor...

Let's get Interactive

Get set to enter the Action Zone, an exciting new section of the magazine, featuring photos, art, gossip and more...

don't miss it

There are few things in the world better than AMSTRAD **ACTION.** Mint Crisp bars from BR vending machines, chilli flavour McCoys crisps... er, and that's it. All of which means you'd be a fool not to hand this form to your newsagent:

Dear Newsagent, I'm no fool, so please reserve Amstrad Action for me every month, starting with the September issue, probably out on Thursday 20th August. Oh, and can I have a packet of chilli McCoys too, please.*

My name	
•	
My address	
my address	

A New World

With the appearance of the (pretty crap) film The Lawnmower Man in the

cinemas, virtual reality is now a mega-hip concept. Next month we cover the topic in depth. How does it work? What are virtual reality arcade games like? AA reveals all...

That Extra Dimension

3D on the Amstrad has come in many shapes and forms, from vector graphics to the stylish Freescape language. We catalogue the history of

CPC 3D and detail all the classic 3D games out there for your machine...

Colour Prints

Roll up, roll up. Colour printing is a trouble strewn but great fun activity. For one month



only AA presents a comprehensive guide, covering both colour printers and the special programs you use to get them printing out in colour.

A puzzle for you this month, folks, Here's a screen shot we've knocked together, combining bits from a number of games featured in the past couple of months. The first person to send us a list of all the games included (by August 20th) will win £10 cash. Write to: Back Page Compo (AA83), Amstrad Action, 30 Monmouth Street, Bath, Avon BA1 2BW, the winner of the AA81 caption compo was Duncan Worth of Derbyshire who reckoned Ollie was saying "it started as a boil on my back". Tsch, you can't talk about our new Art Editor like



COMPUTER

Suppliers of Discount Software since 1984

HOW TO ORDER:

All prices include VAT & delivery

Please allow 5 days for cheque clearance. Send cheques or postal orders made payable to: **MJC SUPPLIES (AA)**

EDUCATIONAL DISKS

or more information on the educational

programs ask for the MJC Educational Supplement

Part 1: Prof Plays
A New Game.........14.95
Part 2: Prof Looks at Words.......14.95

LCL SOFTWARE

KOSMOS SOFTWARE

French Mistress 12 to adult....15.95

Answerback Junior Quiz (6-11yrs)
500 general knowledge questions...10.95
Factfiles (require Answerback Quiz)
Arithmetic (6 to 11 years).......7.95

Fun School 1 10 programs per disk

Fun School 2 8 programs per disk

Fun School 3 6 programs per disk

NEW Fun School 4 6 programs per disk

6 95

6 95

7.95

.7.95

11.95

.11.95

.11.95

L Primary Maths (3-12)

CL Mega Maths (A-Level)

erman Master 12 to adult...

Spelling (6 to 11 years).

NEW! TRIPLE R SOFTWARE

Four programs per package Picture Book (2-5yrs)......

For 2 to 5 years...

For 8 to 12 years

For 5 to 7 years.

For 2 to 6 years.

For 6 to 8 years

For 2 to 5 years

For 5 to 7 years.

For under 5 years

For 8 to 12 years.

Micro Maths (11-GCSE) Micro English (8-GCSE)

Jnit 2. The Arches, Icknield Way, Letchworth. Herts, SG6 1UJ

Or telephone with Access or Visa debit and credit cards on:

0462 - 481166

Overseas Customers: write for quotation Educational Bodies, Local Authorities, Govt. Departments: send written order FAX US ON 0462 670301

CF2 DISKS

5	for£8.95	
10	for£15.95	ı
20	for£29.95	ı

DESKTOP PUBLISHING

STOP PRESS SOFTWARE

superb page layout program allowing text and graphics to be printed on the same page. Contains a number of text fonts & clip art. Create MJC PRICE £34.95

STOP PRESS & AMX MOUSE As above but is supplied complete with the AMX mouse making the program easier and MJC PRICE £64.95

EXTRA! EXTRA! Two disks of extra fonts and clip art MJC PRICE £14.95

* * SPECIAL OFFERS * * STOP PRESS SOFTWARE PLUS ΕΧΤΡΔΙ ΕΧΤΡΔΙ ONLY £44.95

STOP PRESS & EXTRA EXTRA AMX MOUSE AND INTERFACE

CPC AMX MICE & INTERFACE

We now have CPC mice and interfaces back in stock.

CPC MOUSE & INTERFACE £34.95 (Plus owners please call)

RIBBONS

Quantity

	DMP 2000/30003.005.5012.00
	Panasonic KXP1081/1180 3.95 7.00 15.00
	Citizen 120-D,3.957.0015.00
	Star LC-10 Mono3.957.0015.00
	Star LC24-104.959.0020.00
	Panasonic KXP-11243.957.0015.00
	Star LC-10 Colour 5.95.11.00
	Star LC200 Mono5.50.10.00
	Star LC200 Colour10.95.19.95
	Star LC24-200 Mono4.959.00
	Heat Transfer Ribbons
	Heat Transfer Ribbons
	x1 x2
	x1 x2 Citizen 120-D Mono6.9513.00
	x1 x2 Citizen 120-D Mono6.9513.00 Panasonic 1081/1180 Mono .7.9515.00
	x1 x2 Citizen 120-D Mono6.9513.00 Panasonic 1081/1180 Mono .7.9515.00 Star LC-10 Mono6.9513.00
	x1 x2 Citizen 120-D Mono6.9513.00 Panasonic 1081/1180 Mono .7.9515.00 Star LC-10 Mono6.9513.00
	x1 x2 Citizen 120-D Mono6.9513.00 Panasonic 1081/1180 Mono .7.9515.00
The state of the s	x1 x2 Citizen 120-D Mono6.9513.00 Panasonic 1081/1180 Mono .7.9515.00 Star LC-10 Mono6.9513.00

COURIER DELIVERY Available on any order Prices start at £3.00

SERIOUS DISKS

PROTYPE Arnor's excellent print enhancer - a

must for all Protext users (not CPM)

MJC PRICE £21.95

Protext	19.95
Prospell	17.95
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	25 95
(opi causineed	
	Protext

COLOURDUMP 3

After a lot of feedback on ColourDump 2 we are now pleased to announce the latest version of the best colour screen printing program for the CPC range. Requires Sta LC-200 or compatible 9 pin colour printer Improved use with Advanced Art
Studio. Will automatically read in palette file and set screen mode to ensure you page is the same as your screen. Uses compressed or uncompressed files. **Bigger printouts.** In addition to the original 13 cm x 9 cm image, a large print ou

at approximately 22cm x 15cm is available at single or double density. Use Multiface screens. A conversion

outine is supplied to allow most Multiface screens to be used.

NO OTHER COLOUR SCREEN DUMP OFFERS SO MUCH.
COLOURDUMP 3 £15.95 DISK ONLY

Stardump	14.95
Stockmarket (share analysis)	Call
Money Manager (home accounts)	21.95
Nirvana disk copier	14.95
Maxam Assembler	19.95
Mini Office 2	.14.95
Advanced Art Studio (128K)	.17.95
Advanced Art Studio & AMX mouse	

GAMES DISKS COMPILATIONS

Capcom Collection ..

Gary Lineker Collection Hollywood Collection Max Pack Movie Premiere Collection Soccer Stars Super Heroes Super Sega Collection TNT 2 Virtual Worlds	14.95 17.95 14.95 13.95 17.95 13.95	
Alien Storm Battle Command Captain Planet. Colossus Chess 4 Double Dragon 3. F-16 Combat Pilot Gauntlet 3. Hudson Hawk The Jetsons North & South Outrun Europa Paperboy 2. Pit Fighter Potsworth & Co. Robozone Rodland. Sim City The Simpsons Smash TV. Space Crusade	11.95 11.95 11.95 7.96 12.95 11.95 6.56 6.56 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99 11.99	

For 7 to 11 years. 11.95

ACCESSORIES

ACCIOCOMIL	
DKT 64K Memory Expansion 464	39.95
Multiface 2 Plus (for CPC)	Call
Multiface 2 Plus (Plus models)	Call
8 bit printer port (inc. lead)	24.95
CPC to parallel printer lead	9.95
CPC Plus to parallel lead	6.95
464 keyboard-monitor ext leads	7.95
6128 keyboard-monitor ext lead	8.95
NEW 6128+ key/monitor ext leads .	7.95
FD1 Disk Drive Lead (664/6128)	7.95
464/6128 monitor/keyboard	
dust covers	7.95
464/6128 plus dust covers	
(please state exact machine - col/n	
Quickjoy Python	
Competition Pro 5000	
Topstar Joystick	19.95
ODM DACED	

CPM BASED

I	Protext CPM	39.9
1	At Last Plus	
١	Supercalc 2	
1	Hisoft Pascal 80	
1	Hisoft C Compiler	
١	lankey Crash course Typing	
ı	lankey Two Fingers Typing	18.9
- 1	idilitely 1110 1 ingels 13ping it	

PRINTERS

FEEL FREE TO CALL FOR ADVICE

9 PIN PRINTERS

STAR LC-20 Star's new replacement for the popular LC-10 is sure to be a winner £159.95

PANASONIC KXP-1170

Replacement for the very popular KXP-1180, Still Offers 4 NLO fonts, and ast printing. Very good quality text for a

£159.95

PANASONIC KXP-2180 new 9 pin colour printer from Panasonic. ffers 7 colours and 6 different fonts. Very good quality printing for a 9 pin printer. £214 95

STAR LC-200

The latest colour printer from Star. Not only very fast but offers new paper handling features. Best value for money. NB: Printing colour graphics requires extra software.
Please call before ordering.

24 PIN PRINTERS

When printing graphics from 24 pin printers results will be distorted without some extra software. Please call before ordering.

STAR LC24-20

xcellent value budget 24 pin printer offering 5 letter quality fonts and additional effects such as quad size, outline and shadow.

PANASONIC KXP-1123

Panasonic's entry level 24-pin, giving a tter print quality than the Star models, bu with 4 LQ fonts and fewer effects £219.95

STAR LC24-200

The replacement for the popular LC24-10, with the same 5 letter quality fonts, shadow and outline effects. Much quicker than the 24-10 and has improved paper handling £259.95

PANASONIC KXP-1124i

eplacement for the excellent 1124, offering excellent text quality, build quality, paper handling and control panel. Now offers hadow & outline effects, 7 LQ fonts and a £279.95

STARJET SJ48 INK JET A new lnk Jet printer from Star. Offers excellent print quality plus virtually no noise. Supports Epson 24 pin and IBM

MJC PRICE £259.95

CASSETTE SOFTWARE

Fun School 3 (2-5)	8.95
Fun School 3 (5-7)	8.95
Fun School 3 (over 7)	8.95
Fun School 4 (2-5)	9.95
Fun School 4 (5-7)	9.95
Fun School 4 (7-11)	9.95
Mini Office 2	9.95
Maxam 464	15.95
Protext 464	15.95
Tasword 464	15.95
Advanced Art Studio (128K)	15.95





